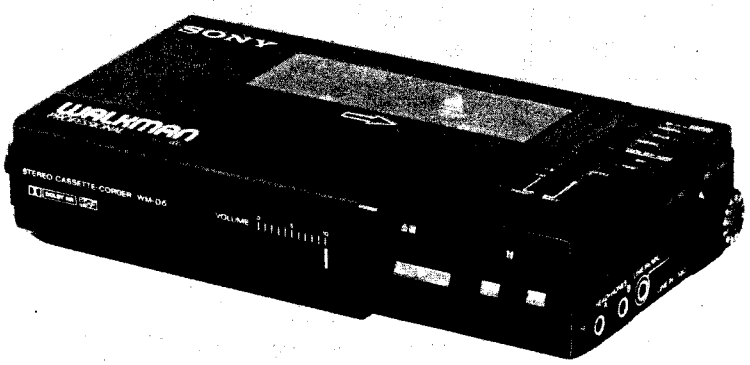
WM-D6

AEP Model
UK Model
US Model



'Dolby' and the double-D symbol are the trade marks of Dolby Laboratories. Noise reduction system manufactured under license from Dolby Laboratories.

STEREO CASSETTE-CORDER

SPECIFICATIONS

Power Requirements: 6 V dc, four batteries, size AA (IEC R6)
BP-23 battery pack (optional)
External power input jack (required power 6 V dc) accepts appropriate ac power with Sony ac power adaptor listed on page 7, or 12 V car battery with Sony DCC-127A car battery cord

Dimensions: 181 (w) x 40 (h) x 95 (d) mm
$7^{1}/_{4}$ (w) x $1^{5}/_{8}$ (h) x $3^{3}/_{4}$ (d) inches
including projecting parts

Weight: 640 g, 1 lb 7 oz including batteries

Recording System: 4-track, 2-channel stereo

Wow and Flutter: ±0.14% (DIN)
0.04% WRMS (NAB)

Tape Speed Deviation: ±0.3%

Speed Controller Variations: Approx. ±4%

Frequency Response (DOLBY NR OFF):
With TYPE Ⅳ cassette, Sony METALLIC
40 – 15,000 Hz ±3 dB
With TYPE Ⅱ cassette, Sony CD-α (EHF)
40 – 15,000 Hz ±3 dB
With TYPE I cassette, Sony BHF (HFX)
40 – 15,000 Hz ±3 dB

S/N (NAB, at Peak Level):
DOLBY NR OFF
TYPE Ⅳ cassette, Sony METALLIC 58 dB
TYPE Ⅱ cassette, Sony CD-α (EHF) 56 dB
TYPE I cassette, Sony BHF (HFX) 54 dB
DOLBY NR ON
improved by 5 dB at 1 kHz, 10 dB above 5 kHz

Total Harmonic Distortion: 1.0% with Sony METALLIC

Inputs: LINE IN/MIC input (stereo minijack) ... 1
With select switch at MIC:
0.25 mV with low impedance microphone
With select switch at LINE IN:
60 mV (47 kilohms)

Outputs: LINE OUT (stereo minijack) ... 1
output level 0.25 V (less than 4.7 kΩ)
Headphones (stereo minijack) ... 2
load impedance 8 – 300 Ω

Power Output: Headphones
30 mW + 30 mW (at 10% harmonic distortion)
load impedance 32 Ω

– continued on next page –

MICROFILM

SONY®
SERVICE MANUAL

Battery Life:

	continuous recording		continuous playback
type of cassette / battery	TYPE IV (Sony METALLIC)	TYPE I (Sony BHF, HFX)	TYPE I, IV
Sony Eveready AM3 alkaline battery	4	5	6
Sony New Super SUM-3(NS)	2	2.5	3

(hours)

While the information given is true at the time of printing, small production changes in the course of our company's policy of improvement through research and design might not necessarily be indicated in the specifications. We would ask you to check with your appointed Sony dealer if clarification on any point is required.

WALKMAN is a trademark of Sony Corporation.

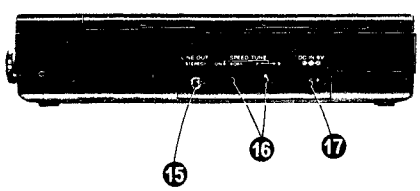
0 dB = 0.775 V

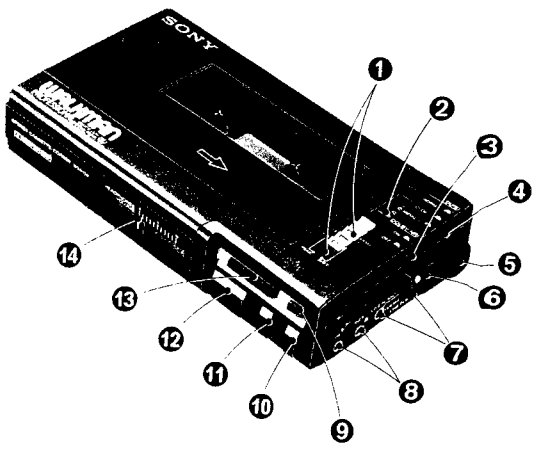
FEATURES

- **Quartz lock capstan servo system** assures accurate and stable tape speed.
- **Speed control** adjusts the tape speed accurately (approx. ±4%) in the playback mode.
- **The Dolby* Noise Reduction System** reduces tape hiss.
- **DC-DC converter** boosts the low voltage of DC 6 V and maintains sufficient power.
- **S & F (Sendust and Ferrite) head** makes possible a wider dynamic range and an extended frequency response, and with the **tape selector** can take full advantage of metal tapes.
- **Four different power sources:** batteries, house current, 12 V car battery and rechargeable battery.
- **5 LEDs peak/battery indicator** indicates both the peak level and the battery strength.
- **Stereo minijacks** can be used for connecting to audio components.

PARTS IDENTIFICATION

❶ PEAK/BATT (battery) indicator and indication selector
❷ Tape counter and reset button
❸ DOLBY NR switch
❹ TAPE selector
❺ REC LEVEL (recording level) knob
❻ ● RECORD button
❼ LINE IN/MIC jack (stereo minijack) and input selector
❽ HEADPHONES jacks
❾ ⏸ (pause) button
❿ ▶▶ (fast forward) CUE button
⓫ ◀◀ (rewind) REVIEW button
⓬ ▶ PLAY (playback) button
⓭ ⏏■ (eject/stop) button
⓮ HEADPHONES VOLUME control
⓯ LINE OUT jack
⓰ SPEED TUNE ON/OFF selector and speed control
⓱ DC IN 6 V jack





SECTION 1
OUTLINE

1-1. HOW TO USE THE UNIT

PRECAUTIONS

- Operate the set only on 6 V dc.
- Do not leave the set in a location near heat sources, or in a place subject to direct sunlight, excessive dust, moisture, rain or mechanical shock.
- Should any liquid or solid object fall into the set, remove the batteries and have it checked by qualified personnel.
- Avoid playing your WM-D6 at so loud a volume that extended play might affect your hearing.
- At a high volume outside sounds may become inaudible. Avoid listening to your WM-D6 in situations where hearing must not be impaired, for example, while driving or cycling.
- As the supplied headphones are of open-air design, sounds go out through the headphones. Remember not to disturb those close to you.

If you have any questions, please consult your nearest Sony dealer.

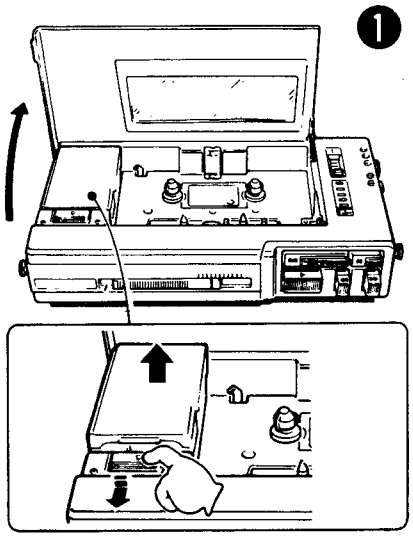
BATTERY INSERTION

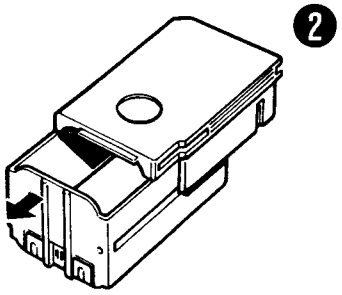
❶ Open the cassette compartment and remove the battery case.
❷ Remove the battery holder from the case.
❸ Insert four batteries, size AA (IEC R6) with correct polarity and replace the holder into the case. Insert the case into the battery compartment until a click is heard.

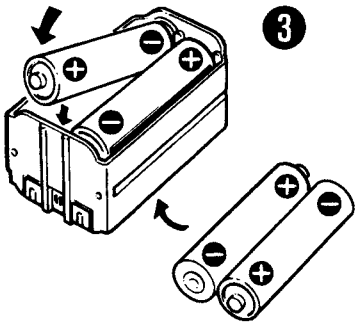
Note: When the set is not to be used for a long period of time or is to be operated extensively on other power sources, remove the batteries to avoid set damage caused by battery leakage and corrosion.

To check the battery condition, press any of the function buttons and set the PEAK/BATT selector to BATT. The bottom-most LED will glow showing battery condition. If the indicator glows faintly replace all batteries at once.

- The life of batteries of other manufacturers or of other type batteries may be different.

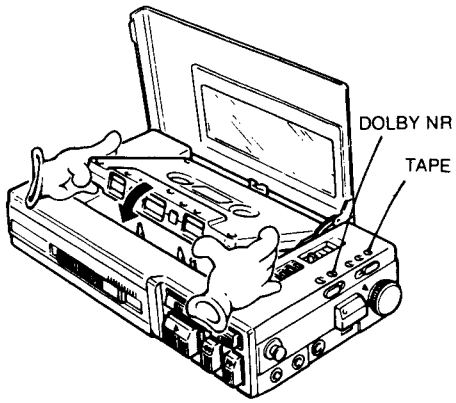






CASSETTE INSERTION

Take up any slack in the tape, and insert a cassette as shown in illustration.
Avoid touching the tape surface. The cassette moves in the direction of the arrow on the compartment lid while recording or playing back.
If there is no cassette in the cassette compartment, the ● RECORD button cannot be depressed. Never depress the button forcibly.

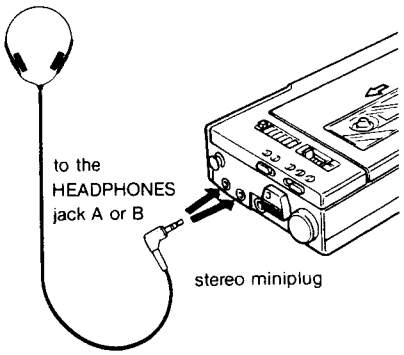


PLAYBACK

For playback through the headphones

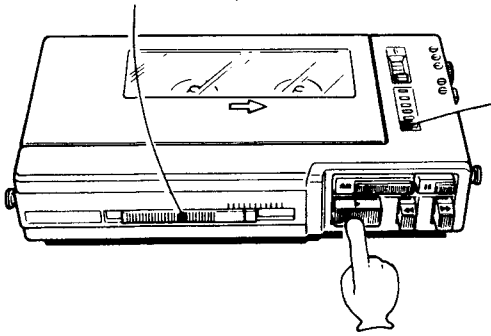
❶ Connect the supplied headphones.

❷ Insert a cassette. See the illustration.
Set the TAPE selector to the appropriate tape position. See the tape list on next page.
For Dolby NR processed tape, set the DOLBY NR switch to ON, and for non-Dolby processed tape, set it to OFF.



❸ Depress the ▶ PLAY button. Playback will begin.

HEADPHONES VOLUME control → adjust the volume of the headphones



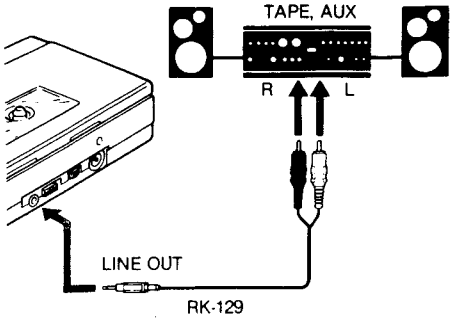
PEAK/BATT indication selector → to PEAK to observe the recorded level

⏏■ button → press to stop the tape before the end of the tape
◀◀ REVIEW button → press to rewind the tape
▶▶ CUE button → press to advance the tape rapidly

For playback through speakers

Connect the supplied connecting cord RK-129 to the LINE OUT jack of the recorder and to the TAPE or AUX inputs of the amplifier. The red plug of the cord should be connected to the red jack (R: right channel) and the white plug to the white jack (L: left channel).

Adjust the volume of the speakers with the volume control of the amplifier.



TAPE LIST AND SETTING OF THE TAPE SELECTOR

These settings are optimum for Sony HFX (BHF), EHF (CD-α) and METALLIC cassettes. You may want to change these settings when using cassettes produced by other manufacturers.

Tapes	Selector position
SONY: SHF, HFX, LNX (for USA and Canada) **AHF, BHF, CHF (for other countries)** AGFA: SUPER FERRO DYNAMIC AMPEX: GRAND MASTER I BASF: PROFESSIONAL I, ferro super LH I FUJI: FX I MAXELL: LN, UD, UD-XL I MEMOREX: MRX, PHILIPS: SUPER FERRO I SCOTCH: MASTER I TDK: AD, SD	TYPE I (NORM)
SONY: EHF (for USA and Canada) **CD-α (for other countries)** AGFA: STEREO CHROM AMPEX: GRAND MASTER II BASF: PROFESSIONAL II, chromdioxid FUJI: FX II MAXELL: UD-XL II MEMOREX: CrO_2, PHILIPS: CHROMIUM SCOTCH: MASTER II TDK: SA, SA-X	TYPE II (CrO_2)
SONY: METALLIC SCOTCH: METAFINE TDK: MA, MA-R MAXELL: MX FUJI: Super Range other metal tapes	TYPE IV (METAL)

SPEED TUNE selector and control

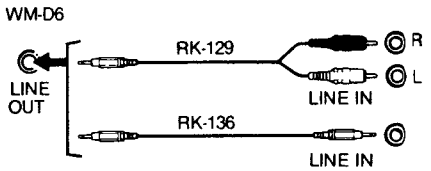
The playback speed can be adjusted to fine tune the pitch of a tape, recorded on another tape recorder. Set the SPEED TUNE selector to ON and turn the SPEED TUNE control to F (fast) or S (slow). For normal tape speed, the OFF (quartz lock) position should be used.
When the ● RECORD button is pressed, this selector is automatically set to the OFF position.

Enjoy headphone sound with a friend!

Thanks to the two HEADPHONES jacks, A and B, you can connect two headphone sets at the same time. Make sure that the impedance of the headphones is the same, otherwise one will have reduced volume.

To duplicate onto another tape recorder

Use the connecting cord RK-129 (supplied) or RK-136 (optional). See illustration.

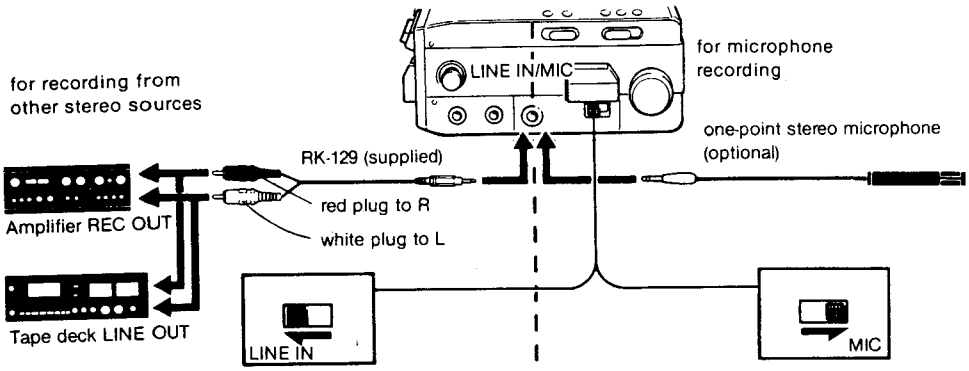


MEMO

RECORDING

❶ Make the appropriate connection for recording.

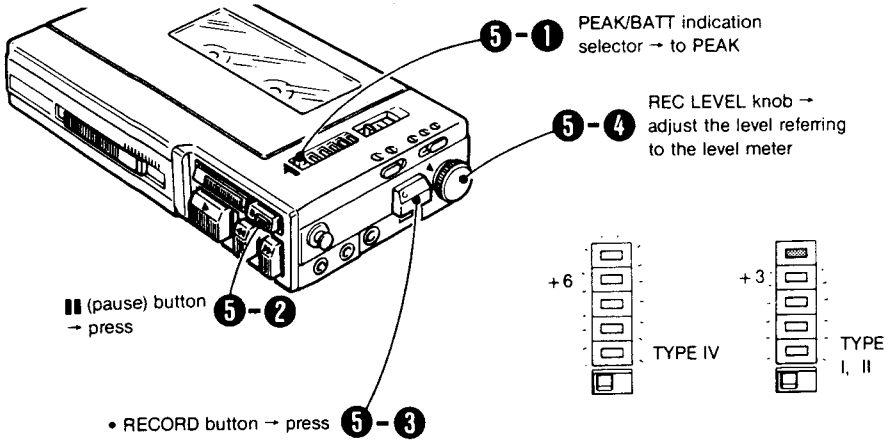
● To connect a one point stereo microphone with two L and R miniplugs or two microphones with a miniplug, use the optional PC-39 plug adaptor.



❷ Insert a cassette.
❸ Select the appropriate tape position.
❹ For recording with Dolby NR process, set the DOLBY NR switch to ON. For recording without Dolby NR set it to OFF.
❺ Adjust the recording level.

To stop recording, press the ⏏■ button.

● Recording levels for metal, CrO_2 and normal tapes are different. When recording with metal tape, the level meter should peak at about +6 dB. For CrO_2 and normal, the peak level should be about +3. The PEAK/BATT indicator will show the strongest peak at the time for either the left or right channel, whichever is stronger at that instant.



❻ Press the ❚❚ (pause) button again. Recording will begin.

● To listen to the sound being recorded, connect the headphones.

OTHER POWER SOURCES

Use the DC IN 6 V jack at the rear.

HOUSE CURRENT
Use the appropriate ac power adaptor listed below, available in the countries where the set is used. Before connecting, be sure to read the instruction manual for the adaptor.

location	ac power adaptor	input voltage of adaptor
AEP	AC-66	220 V ac, 50 Hz
	AC-456C	110 or 220 V ac adjustable, 50 Hz
UK	AC-15A	240 V ac, 50 Hz
US	AC-9W	120 V ac, 60 Hz
Canada	AC-9	120 V ac, 60 Hz
E	AC-4A	110, 120, 220 or 240 V ac adjustable, 50/60 Hz

12 V CAR BATTERY
Use the Sony DCC-127A car battery cord (optional), and connect the recorder DC IN 6 V jack to the cigarette lighter socket of a car. Set the voltage selector of the DCC-127A to 6 V. For further details, read the instructions of the car battery cord.

Notes
- When the ac power adaptor or the car battery cord is connected to the DC IN 6 V jack, the internal batteries (if present) are automatically disconnected.
- Use only an ac power adaptor or car battery cord manufactured by Sony. Polarity of the plugs of other manufacturers may be different.

RECHARGEABLE BATTERY PACK
Install the Sony BP-23 rechargeable battery pack (optional) into the battery case instead of the batteries. To charge the battery pack, connect the recorder to a wall outlet using the appropriate ac power adaptor. Charging time is about 4.5 hours. Approx. 2 hours of continuous recording and 3 hours of playback is possible with TYPE I cassette.

FUNCTIONS TO MAKE RECORDING/PLAYBACK EASY

Cue and review function
During playback, you may skip-over unnecessary portions of the tape by pressing the ▶▶ CUE button or repeat a certain portion of the tape by pressing the ◀◀ REVIEW button.
When the ▶▶ CUE or ◀◀ REVIEW buttons is released, the recorder will automatically return to the playback mode.

⏸ (pause) button
To stop the tape momentarily during recording, playback or for recording level adjustment, push the ⏸ button. To restart, push the ⏸ button again. To stop the tape for an extended time, use the ⏏■ button.

Automatic shut-off mechanism
In the record or playback mode, tape motion stops at the end of the tape and the locked buttons will return to their original position automatically.
In the fast forward or rewind mode, tape motion stops at the end of the tape and the motor will stop. In this case, the locked button will not be released automatically. Be sure to press the ⏏■ button to release the ▶▶ CUE or ◀◀ REVIEW button.

Instant review function
During recording, you can listen to the material just recorded with this function. To make an instant review, start the recording by depressing the ● RECORD button. When the ◀◀ REVIEW button is depressed, only the ● RECORD button will be released and the tape will be rewound. By releasing the ◀◀ REVIEW button, the recorder will go into the playback mode.

Instant edit function
During playback, simply depress the ● RECORD button, and the recorder will immediately change to the recording mode. This function is convenient for correcting previously recorded portions.

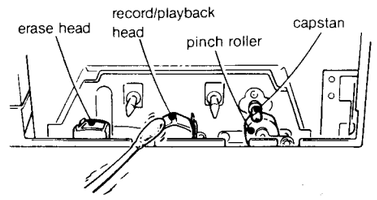
Tape counter for indexing the tape contents
Before recording, push the reset button to set the counter to "000" and make a note of the figures. This will help you to locate a desired program on the tape.

To prevent accidental erasure
Break out the small tabs on the rear of the cassette. The ● RECORD button cannot be depressed if a cassette with its tabs broken out is used. To reuse a cassette for recording after the tabs have been removed, simply cover the slot with a small piece of cellophane or vinyl tape.

To make a blank erasure
❶ Insert a cassette.
❷ Ensure that nothing is connected to the LINE IN/MIC jack.
❸ Set the REC LEVEL control to minimum.
❹ Press the ● RECORD button.

MAINTENANCE

CLEANING THE HEADS
Clean the tape heads after every 10 hours of use to enjoy optimum hi-fi stereo sound: moisten a cotton swab or a soft cloth with denatured alcohol and wipe the parts shown below.



DEMAGNETIZING THE HEADS
Either prolonged use, or accidental contact with a magnetized screwdriver or scissors will magnetize the heads causing an increase in tape noise. In such a case, demagnetize the heads using a commercially available head demagnetizer.

CLEANING THE CASING
Clean the casing with a soft cloth slightly moistened with water or a mild detergent solution. Do not use solvents such as alcohol, benzine, or thinner as they may mar the finish of the casing.

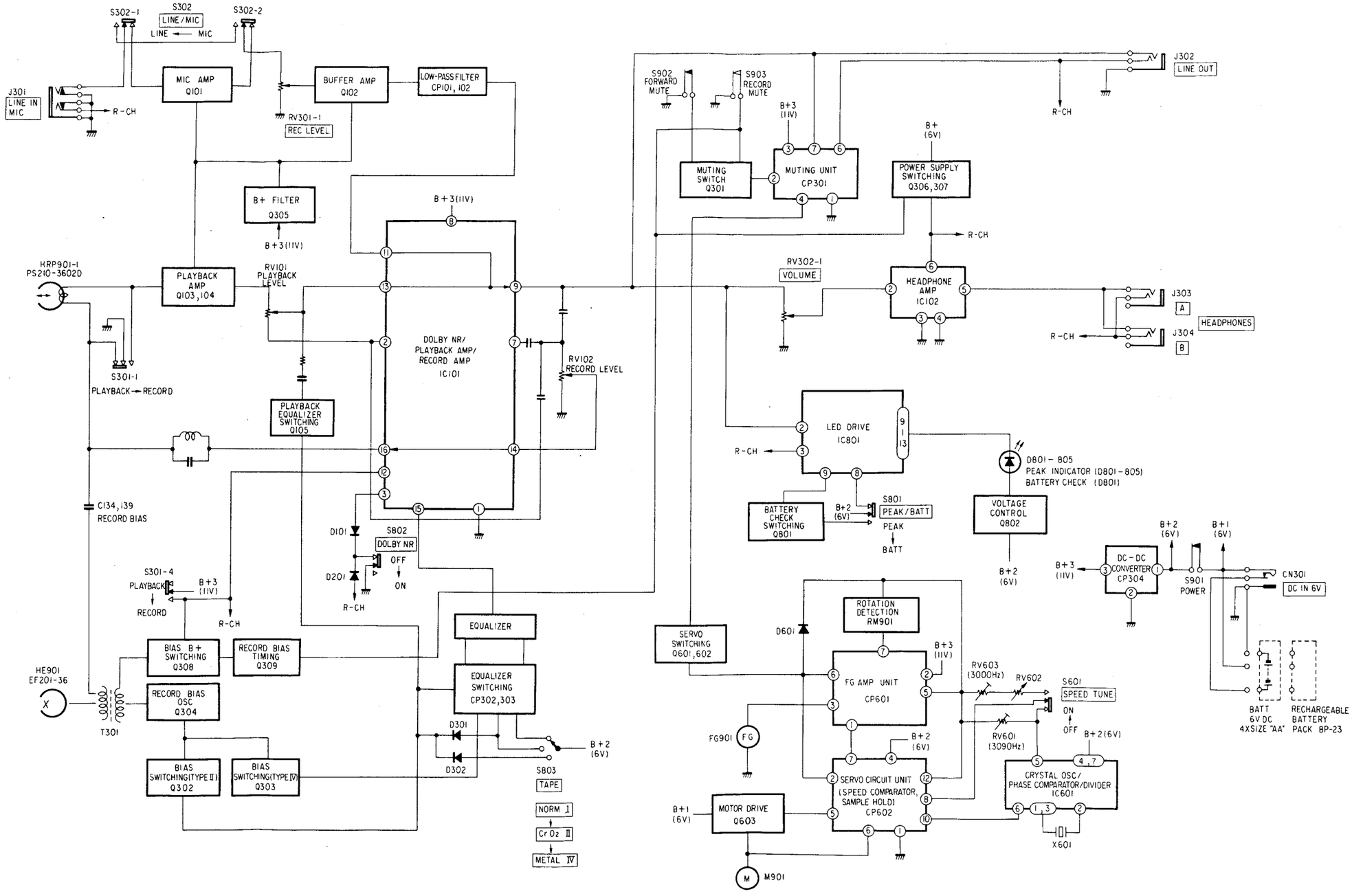
Optional accessories
AC power adaptor AC-4A, AC-9, AC-9W, AC-15A, AC-66, AC-456C
Car battery cord DCC-127A
Battery pack BP-23
One-point stereo microphone (with stereo miniplug)
ECM-929LT, ECM-939LT (not available in USA) one-point stereo microphone (with two miniplugs) ECM-939T, ECM-949T usable with optional PC-39 plug adaptor.
Stereo headphones MDR-4T, MDR-50L, MDR-50T, MDR-70T
Connecting cord
RK-129 (stereo miniplug to phono plug × 2)
RK-136 (stereo miniplug to stereo miniplug)
Plug adaptor PC-33 (stereo miniplug to stereo phone jack), PC-39 (stereo miniplug to minijack × 2)

Continued trouble-free operation of any tape recorder is dependent on the quality of the cassettes used in conjunction with it. The use of Sony cassettes is recommended for high quality recording and trouble-free operation.

Your dealer may not handle some of the above listed optional accessories. Please ask the dealer for detailed information about the optional accessories available in your country.

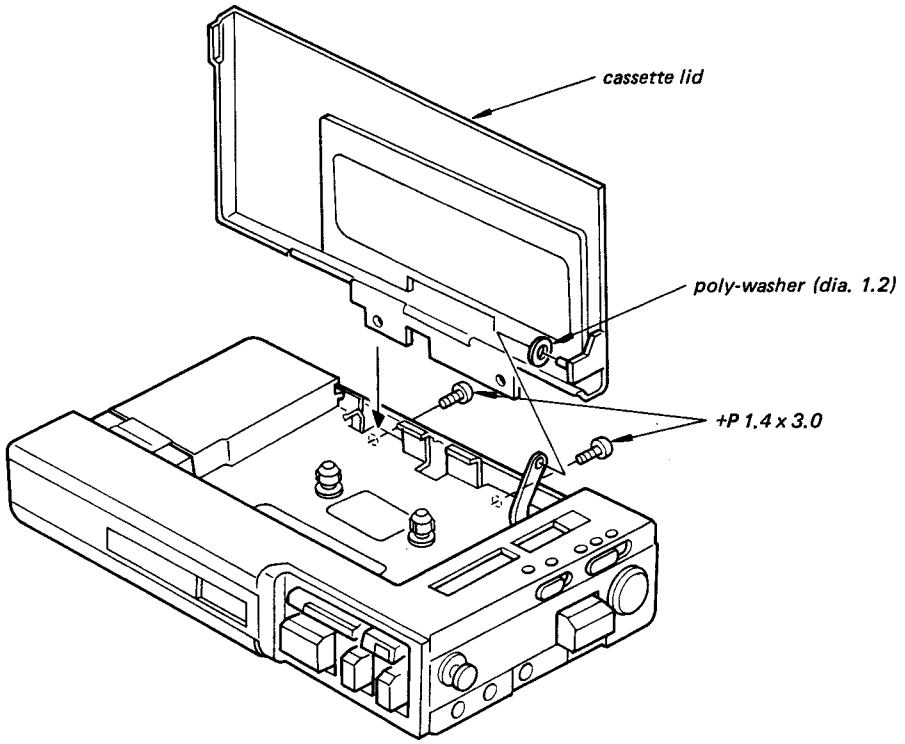
Important information
For a period of 90 days from the date of original purchase. Sony will pay the labor charges of an authorized service facility of the Sony international Service Network.
This warranty is valid only outside the country where the product has been purchased originally.

1-2. BLOCK DIAGRAM

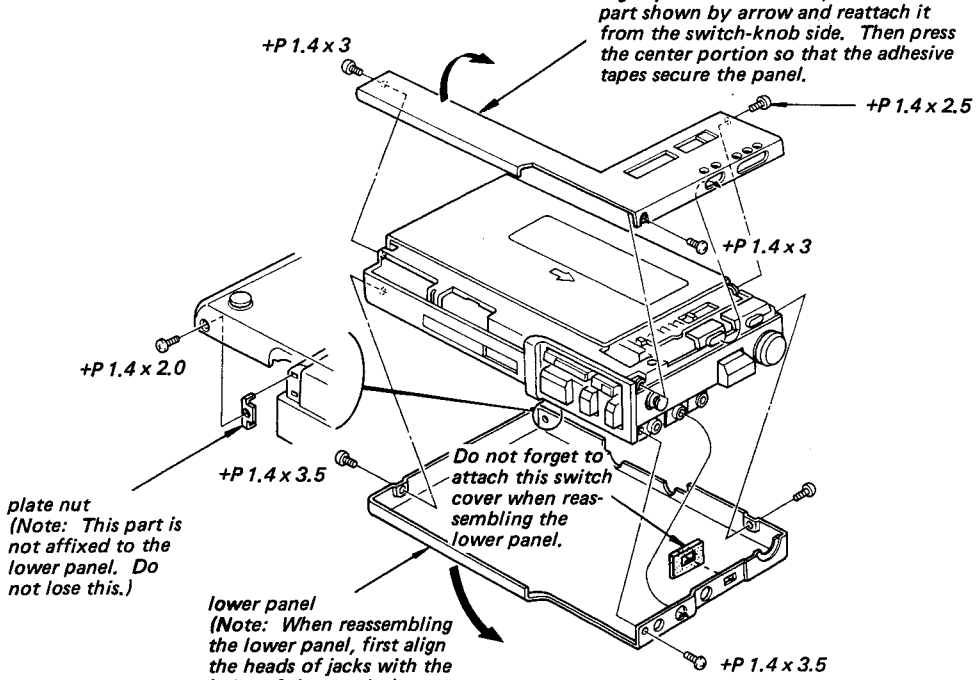


SECTION 2
DISASSEMBLY

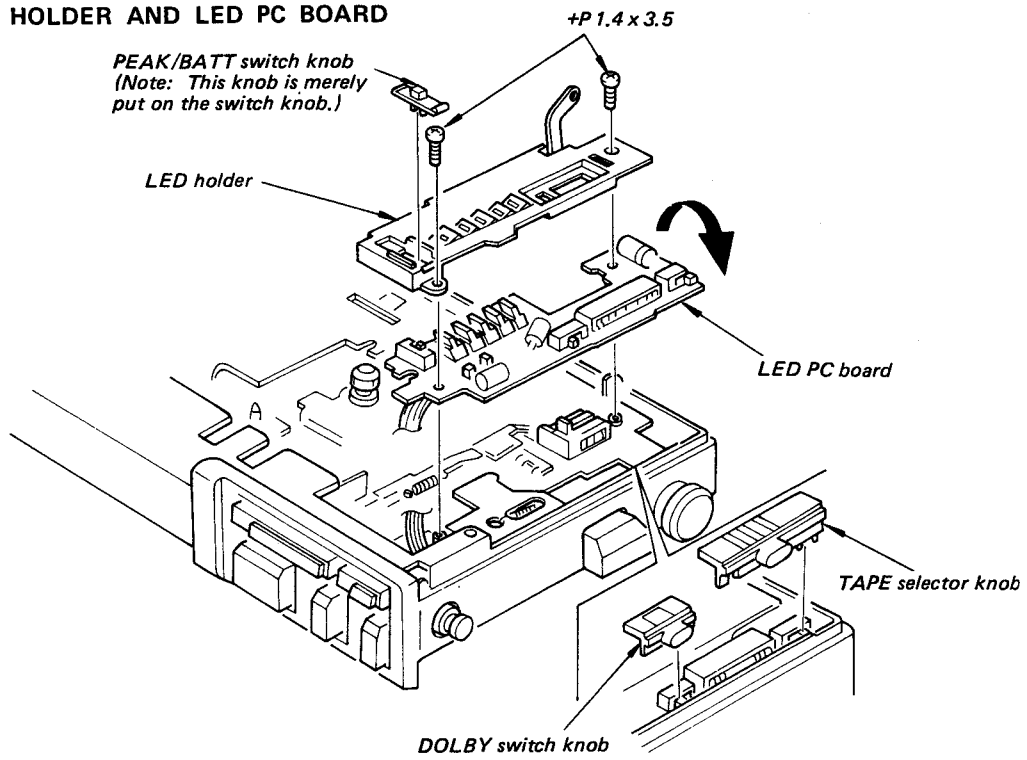
CASSETTE LID



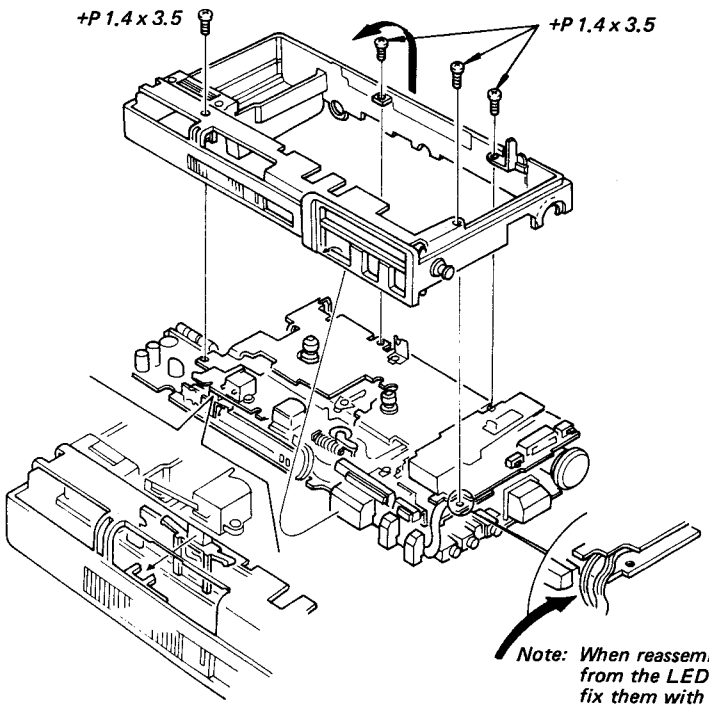
UPPER PANEL AND LOWER PANEL



LED HOLDER AND LED PC BOARD

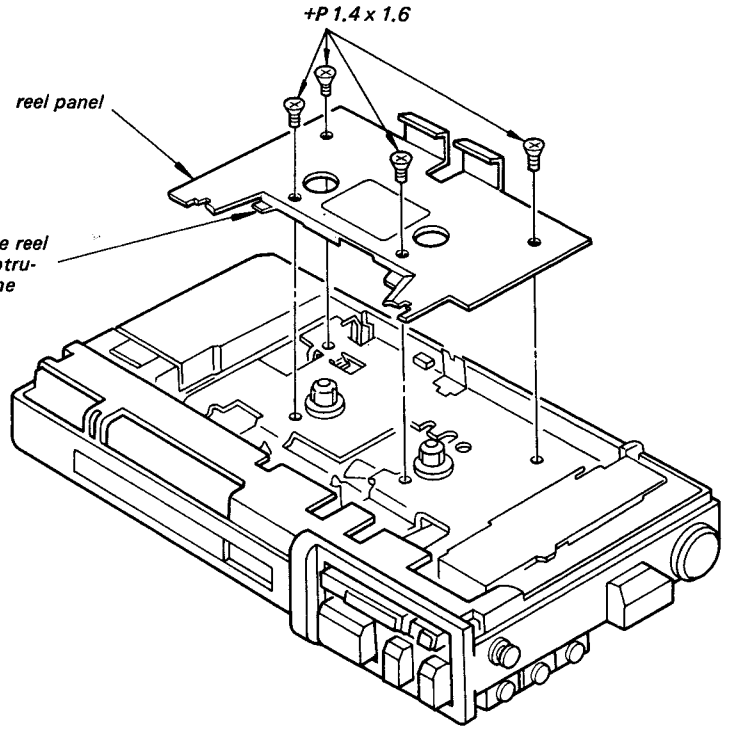


MAIN PC BOARD AND DECK MECHANISM

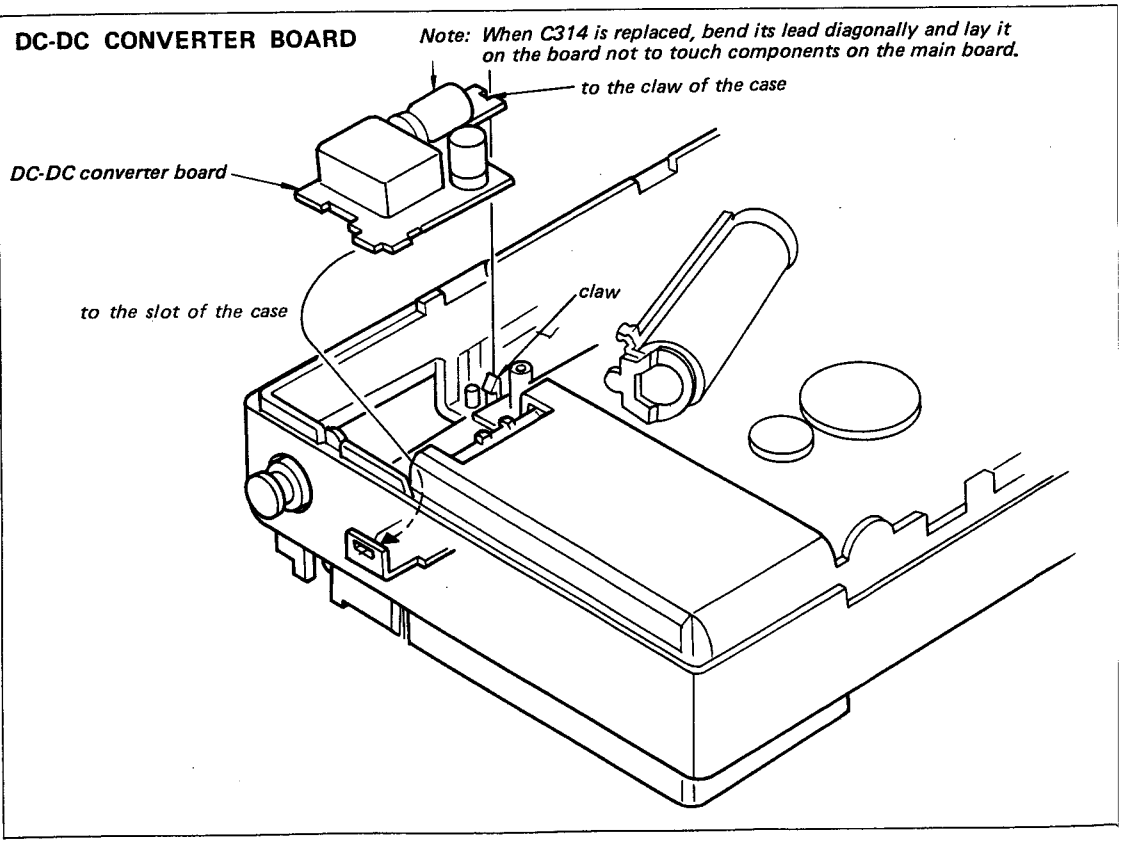


Note: When reassembling, dress lead wires from the LED board to inside and fix them with adhesive tape so they are not damaged by the boss of the case.

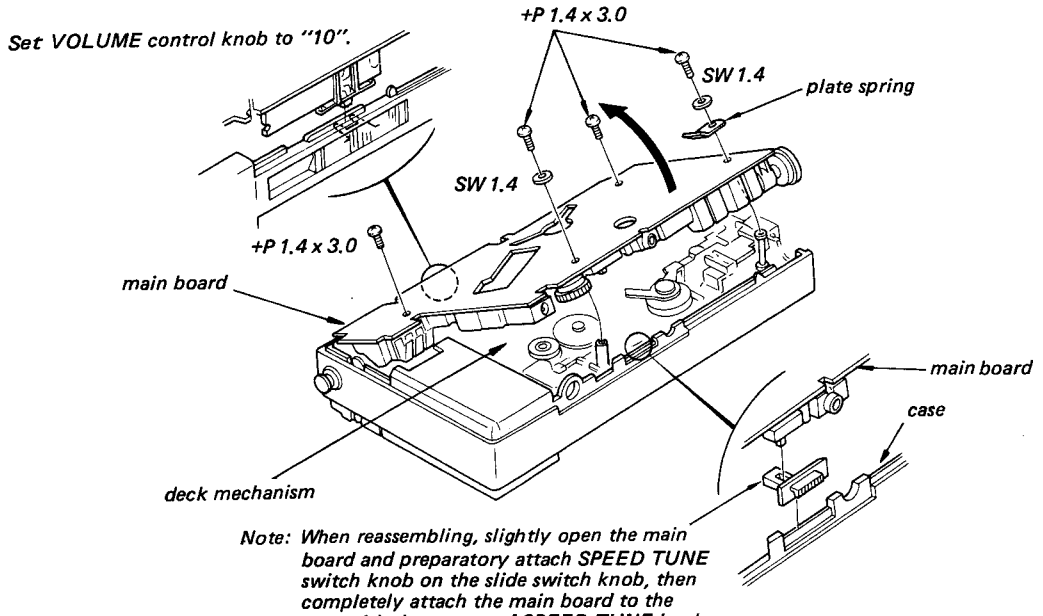
REEL PANEL



DC-DC CONVERTER BOARD

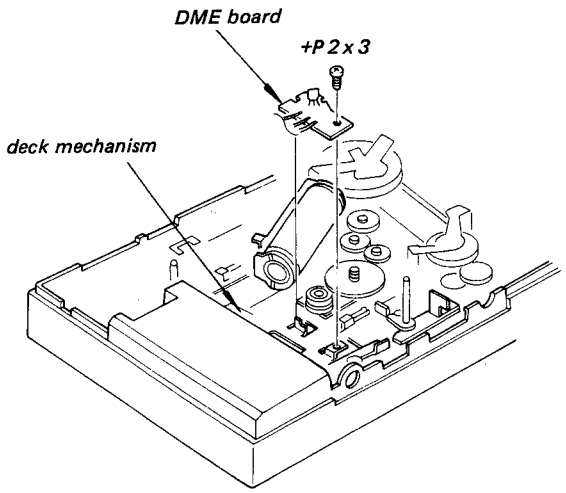


MAIN PC BOARD AND DECK MECHANISM



Note: When reassembling, slightly open the main board and preparatory attach SPEED TUNE switch knob on the slide switch knob, then completely attach the main board to the case with the groove of SPEED TUNE knob properly sat on the edge of the case. And check that the knob smoothly moves and the switch securely operates.

DME PC BOARD



SECTION 3
ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:

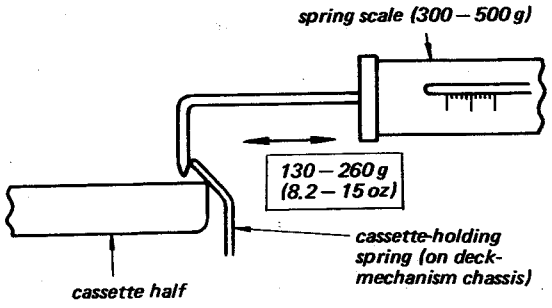
record/playback head	pinch roller
erase head	rubber belts
capstan	idlers

2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

3-1. MECHANICAL ADJUSTMENTS

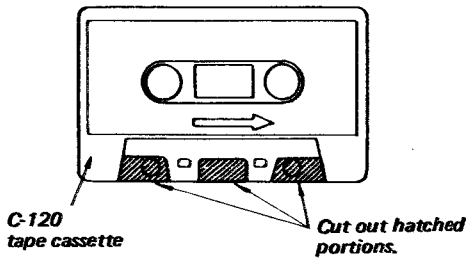
CASSETTE-HOLDING SPRING TENSION ADJUSTMENT

1. Pull the spring scale outward until the cassette-holding spring releases from the cassette half.
2. Slowly return the spring scale back to the cassette half until the spring just touches the edge of the cassette half. Read the spring scale at this instant.
3. Adjust the spring by bending back and forth to satisfy the tension, 130 – 260 g (8.2 – 15 oz).

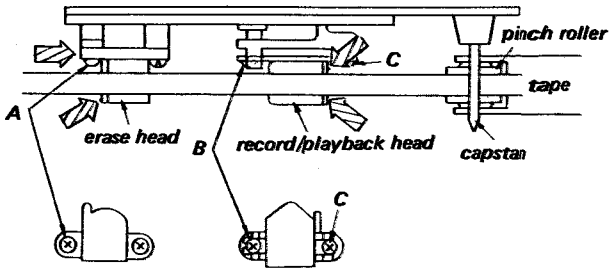


Head Height Adjustment

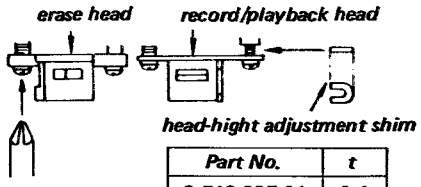
1. Prepare an adjustment cassette as shown below.



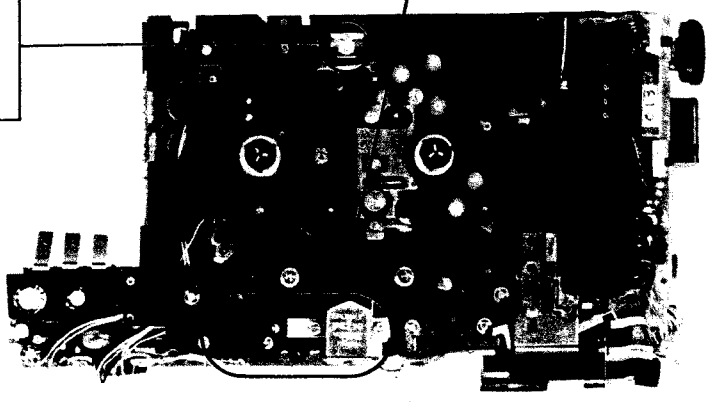
2. In playback mode and viewing from the front, adjust the head heights by using the adjustment screw A, B, C, to eliminate tape curl and tape twist at portions shown by arrow. Specifically no curls should exist at the lower sides of the tape guides.



3. If necessary, use shims for the head-height adjustment.

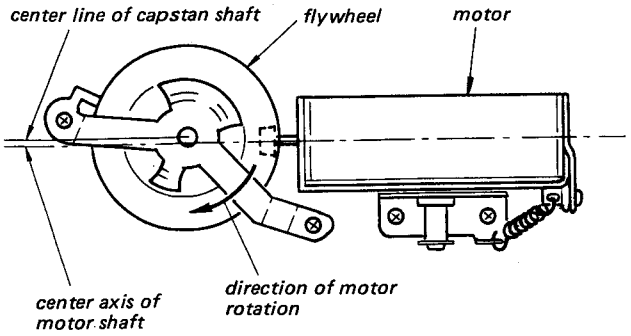


Part No.	t
3-513-237-01	0.1



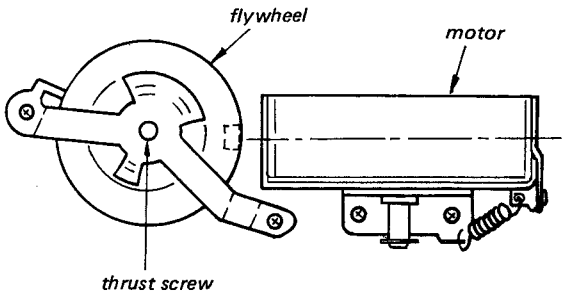
MOTOR POSITION ADJUSTMENT

Adjust the motor position so that the center axis of the motor is slightly off from the center of the shaft of the flywheel as shown below.



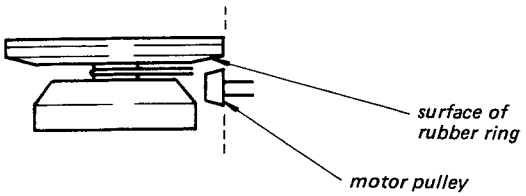
FLYWHEEL THRUST ADJUSTMENT

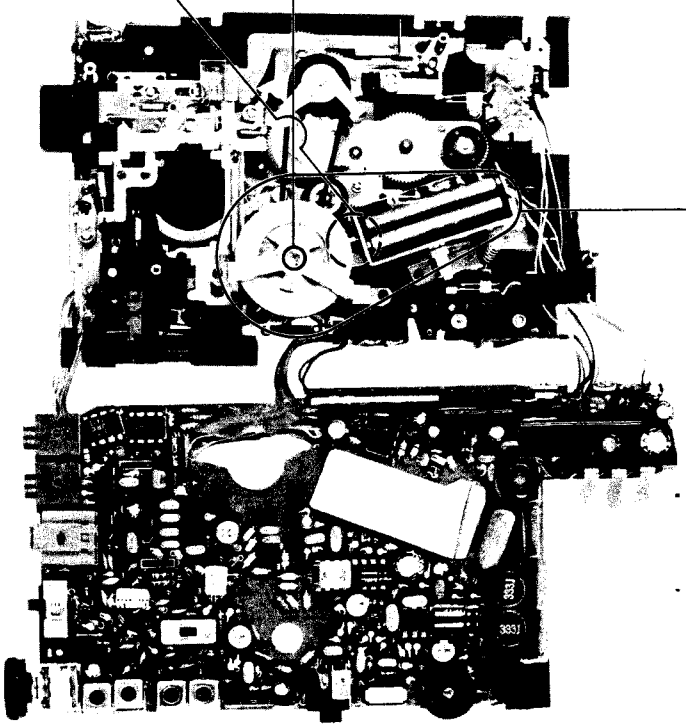
1. Pick the flywheel with fingers and move it up and down and adjust the thrust screw position so that the thrust becomes in 0.05 to 0.2 mm (less than 1/64").
2. After the adjustment, apply locking compound to the thrust screw.



MOTOR-PULLEY POSITION CHECK

1. Place the set horizontally.
2. In forward, fast-forward or in rewind mode, the motor pulley's inner edge (large side) should not extend from the edge of the flywheel's rubber ring.
3. When the mode is changed from forward, fast-forward or from rewind by slowly pressing the stop button, the motor-pulley and rubber surface of the flywheel should have clearance.



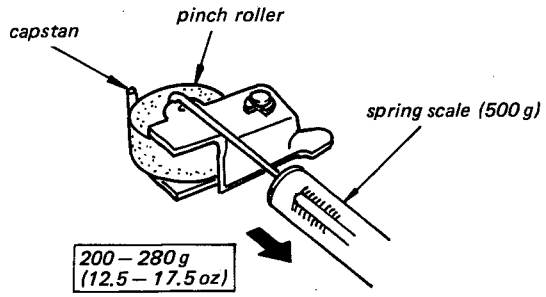


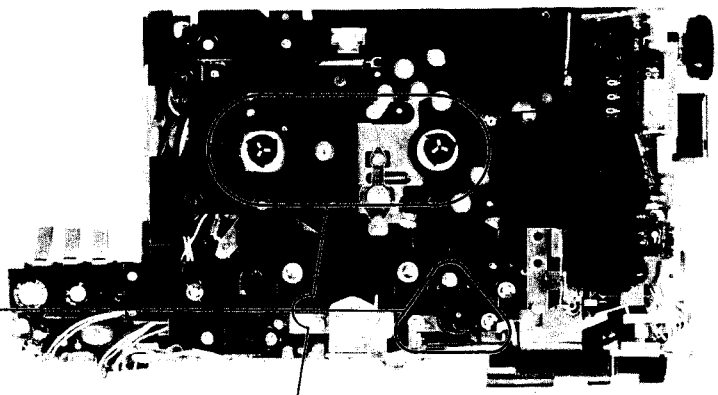
Pinch Roller Pressure Adjustment

Procedure;

— playback mode —

1. Pull the spring scale.
2. Slowly return the pinch roller and read the spring scale just when the pinch roller starts to rotate.
3. If necessary, bend or replace the spring.

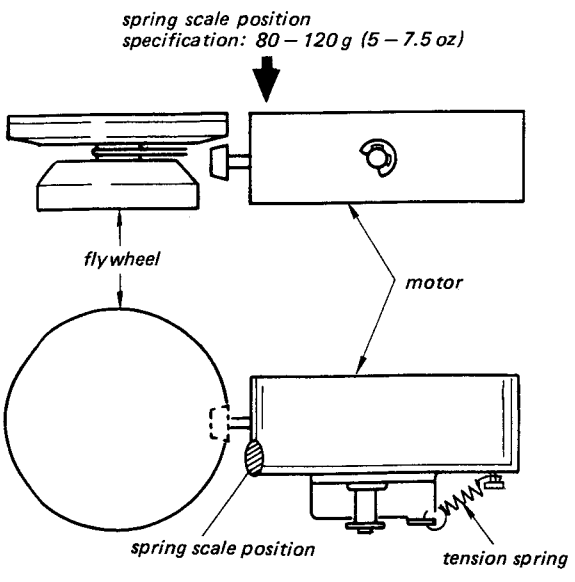




MOTOR-PULLEY PRESSURE ADJUSTMENT

— Forward mode —

1. Place the set horizontally.
2. Put a spring scale vertically on the edge of the motor holder as shown below.
3. Push the spring scale down vertically until the motor pulley just detaches from the flywheel's rubber ring and read the spring scale at this instance.
4. If necessary, adjust the tension of the tension spring or change the spring.



TORQUE MEASUREMENT

1. Place the set horizontally.
2.

MODE	TORQUE METER	TORQUE
Forward Record	CQ-102B	25 – 50 g·cm (0.35 – 0.49 oz·inch)
Back tension		1.5 – 3.5 g·cm (0.02 – 0.049 oz·inch)
Fast-forward Rewind Cue Review	CQ-201B	more than 60 g·cm (0.83 oz·inch)

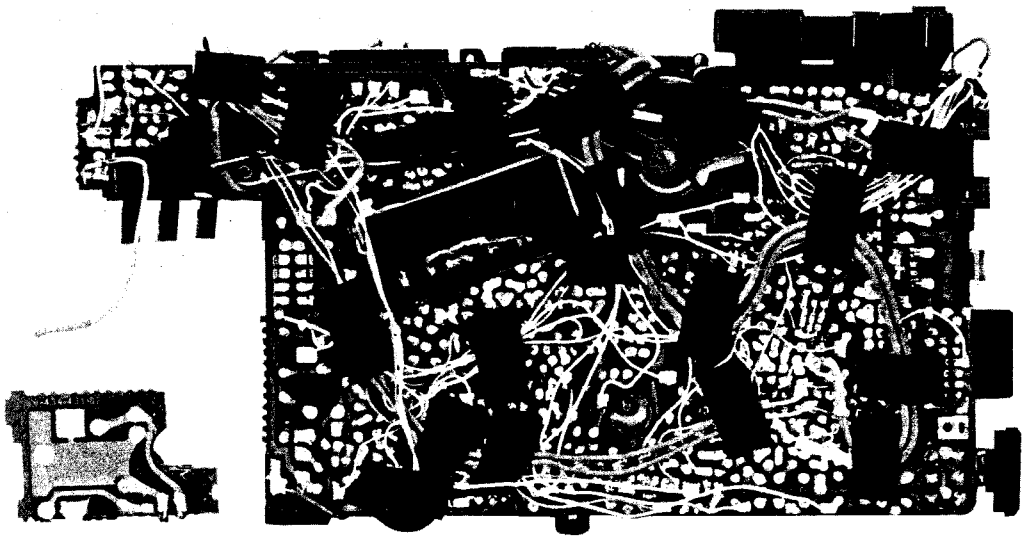
TAPE TENSION CHECK

1. Place the set horizontally.
2.

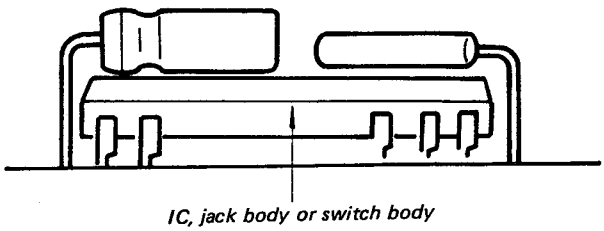
MODE	TORQUE METER	TORQUE
Forward Rewind Forward after cueing Forward after reviewing	CQ-403	more than 60 g·cm (0.83 oz·inch)

GENERAL NOTES ON SERVICING

A. Secure the lead wires and shielded wires to the main board with sections of adhesive tapes as shown below, otherwise proper operation of the unit may be degraded.



B. When C110, C116, C140, C143, C304, C306, C309 or C314 is (are) replaced, bend their leads diagonally and lay it (them) on IC, jacks or switch bodies as shown not to let it (them) touch the deck mechanism.



3-2. ELECTRICAL ADJUSTMENTS

Note: The adjustment should be performed in the order given in this service manual. The adjustments should be performed for both L-CH and R-CH.

- Set the TAPE switches according to the tape as follows.

Tape	TAPE switch
CS-15	TYPE I
CS-25	TYPE II
CS-40	TYPE IV

- Switches and controls should be set as follows unless otherwise specified.

  DOLBY NR Switch: OFF
  TAPE switch: TYPE I

- Standard Record:

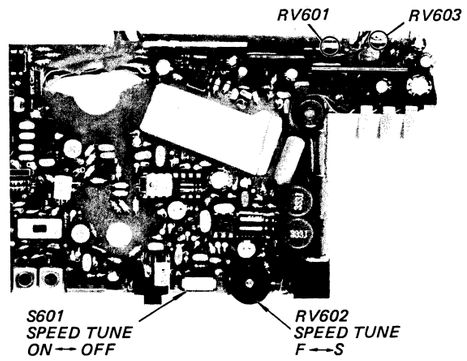
  Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

Standard Input Level

	MIC	LINE IN
source impedance	300Ω	10kΩ
input level	0.77mV (−60dB)	0.25V (−10dB)

Standard Output Level

	LINE OUT	HEAD-PHONES
load impedance	47kΩ	32Ω
output level	254mV (−9.8dB)	0.25V (−10dB)

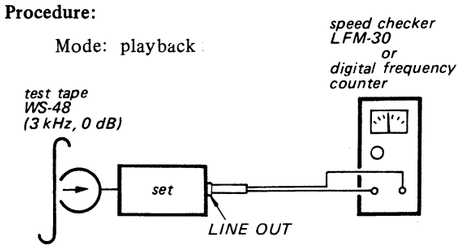


Tape Speed Adjustment

Note: Perform this adjustment after the Record/playback Head Azimuth Adjustment.

Procedure:

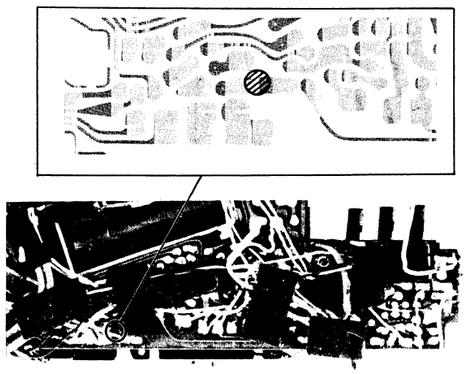
Mode: playback



1. Set SPEED TUNE switch to OFF.
2. Unsolder the solder bridge and open the bridged patterns shown below.
3. Turn RV601 so that frequency reading becomes in 3,090 Hz ± 10 Hz.
4. Resolder the adjustment patterns opened in step 2 above. Now frequency reading should be 3,000 Hz ± 9 Hz.
5. Set SPEED TUNE switch to ON, and SPEED TUNE control to its center position.
6. Turn RV603 so that frequency reading becomes in 3,000 Hz ± 10 Hz.
7. Set SPEED TUNE control to maximum position in "S" direction. Now frequency reading should be below 2,884 Hz.
8. Set SPEED TUNE control to maximum stop in "F" direction. Now the frequency should be above 3,120 Hz.
9. Set SPEED TUNE control back to center position.

Adjustment Location:

– main board –

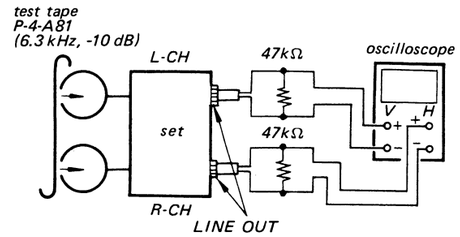


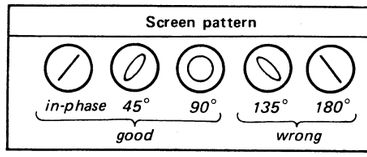
Record/playback Head Azimuth Addustment

Note: Perform this adjustment before the Tape Speed Adjustment.

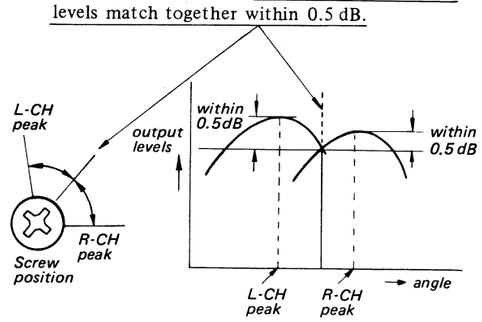
Procedure:

1. Mode: playback
   VOLUME control: not-distorted-output position



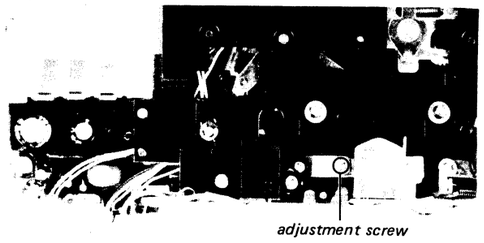


2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 0.5 dB.



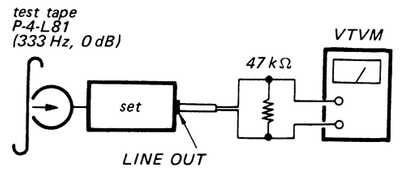
3. After adjustment, apply locking compound to the adjusted screw.

Adjustment Location:



Playback Level Adjustment

Procedure:



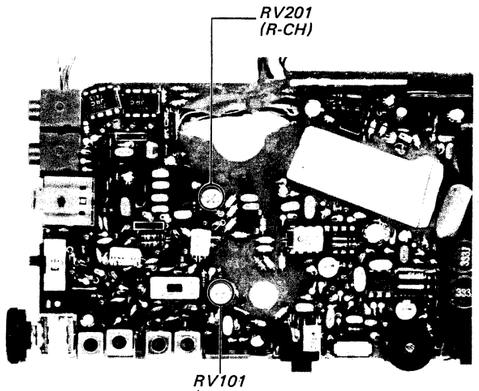
Specification:

LINE OUT level: 0.32 V
(−7.8 dB ±0.2 dB)

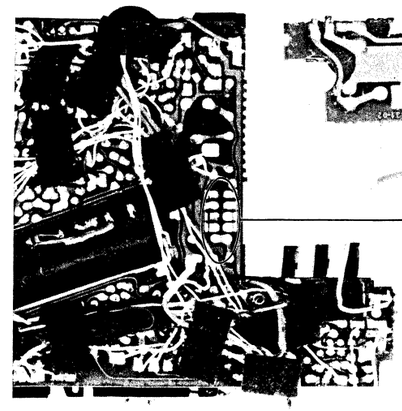
Check that the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location:

– main board –



Adjustm

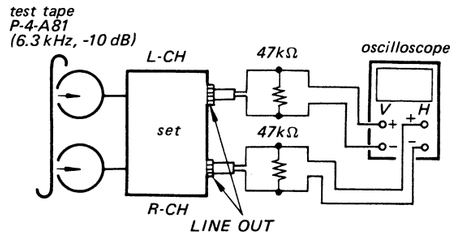


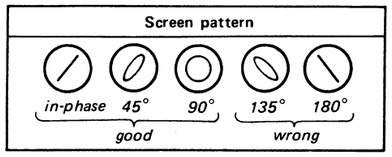
Record/playback Head Azimuth Addustment

Note: Perform this adjustment before the Tape Speed Adjustment.

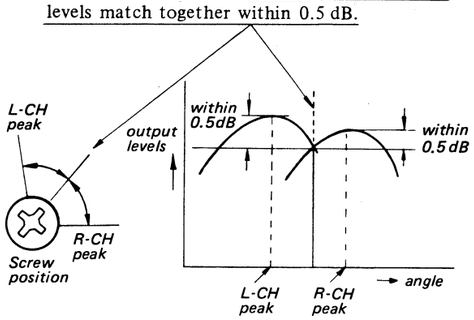
Procedure:

1. Mode: playback
   VOLUME control: not-distorted-output position



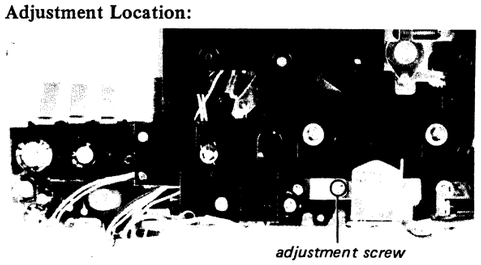


2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 0.5 dB.



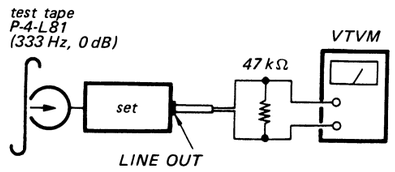
3. After adjustment, apply locking compound to the adjusted screw.

Adjustment Location:



Playback Level Adjustment

Procedure:



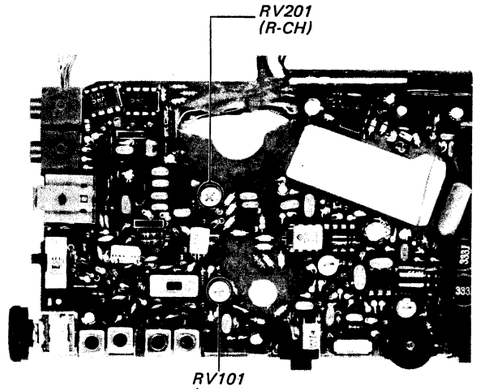
Specification:

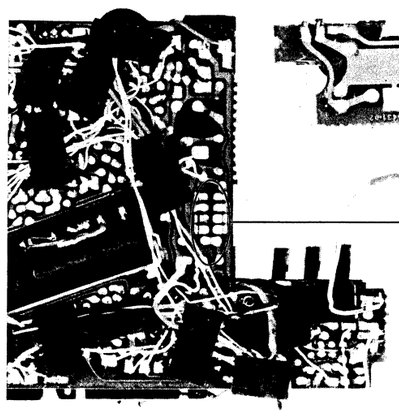
LINE OUT level: 0.32 V
(-7.8 dB ±0.2 dB)

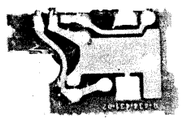
Check that the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location:

– main board –







Adjustment Location:

– main board –

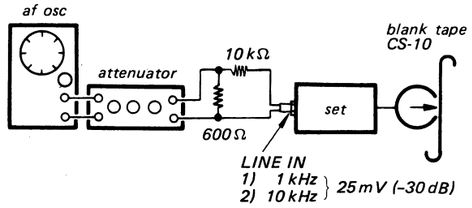
Record Bias Adjustment

Setting:

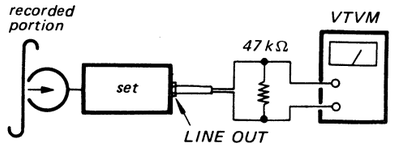
REC LEVEL control: standard record
LINE IN : -10 dB
LINE OUT : -9.8 dB

Procedure:

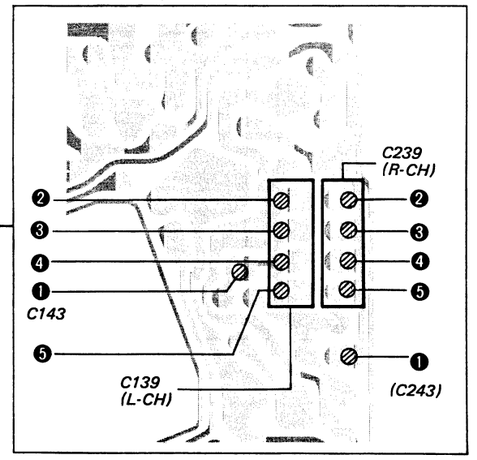
1. Mode: record



2. Mode: playback



3. Play back both 1 kHz and 10 kHz signals.
4. Make output level of 10 kHz signal becomes equal to that of 1 kHz signal by adjusting pattern bridges. Tolerance: 0.5 dB
5. If only one pattern bridgging does not satisfy the adjustment, try two or more pattern bridggings until a proper adjustment is obtained.
6. If necessary, repeat the above steps 1. through 5.



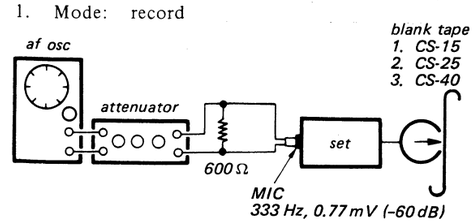
Record Level Adjustment

Setting:

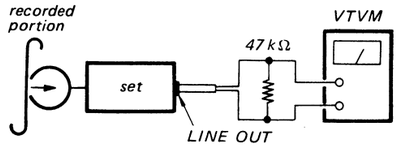
TAPE switch: changes over according as TAPE TYPE

Procedure:

1. Mode: record



2. Mode: playback

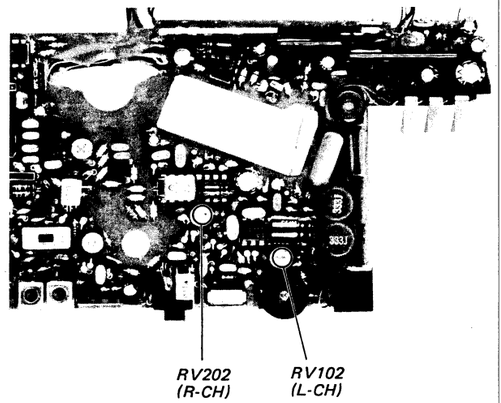


Specification:

Tape	TAPE switch	Standard Output Level
CS-15	NORM	254 mV ±10 mV (-9.8 dB ±0.5 dB)
CS-25	CrO_2	254 mV ±40 mV (-9.8 dB ±1.5 dB)
CS-40	METAL	

Adjustment Location:

– main board –



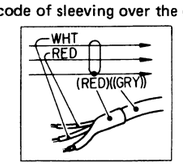
4-1. MOUNTING DIAGRAM

- **Semiconductor Lead Layouts**

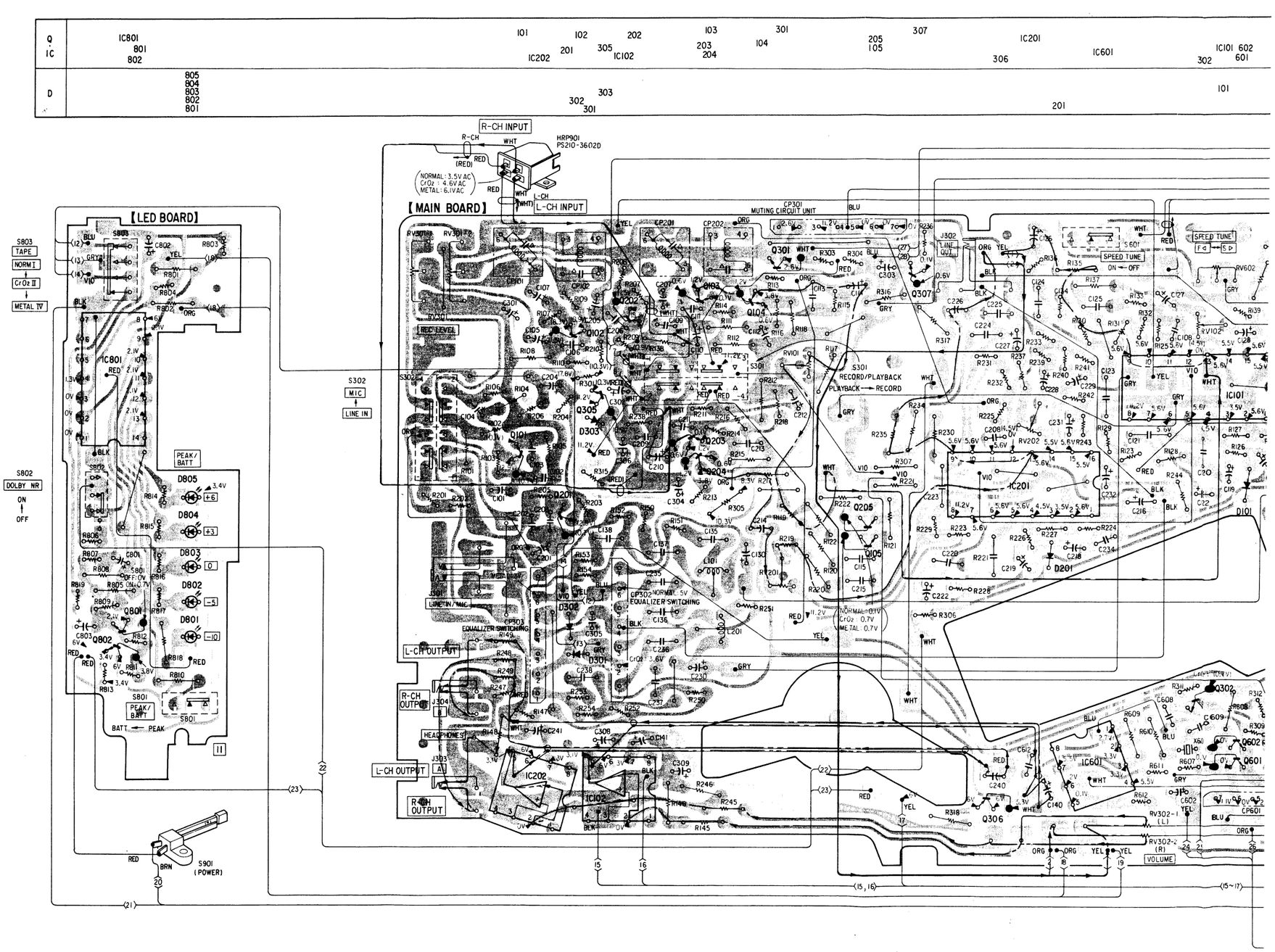
CX-174-2 line or slit or dot 1 2 n n+1 (Top view)	**2SB810** **2SD1020** letter side E C B	**1T22** cathode anode
NJM386D-E **MSM5841ES** line or slit or dot 1 2 n n+1 (Top view)	**2SC2001** E C B	**GL-9PR10** long short anode cathode
TA7654P 1 2 3 4 5 9 8 7 6 (Top view)	**2SB739** E C B	**DM-101A** SONY 01A 1 2 3 1 2
2SC2458 letter side E C B	**1S1555** cathode anode	

Note:

- Color code of sleeving over the end of the jacket.

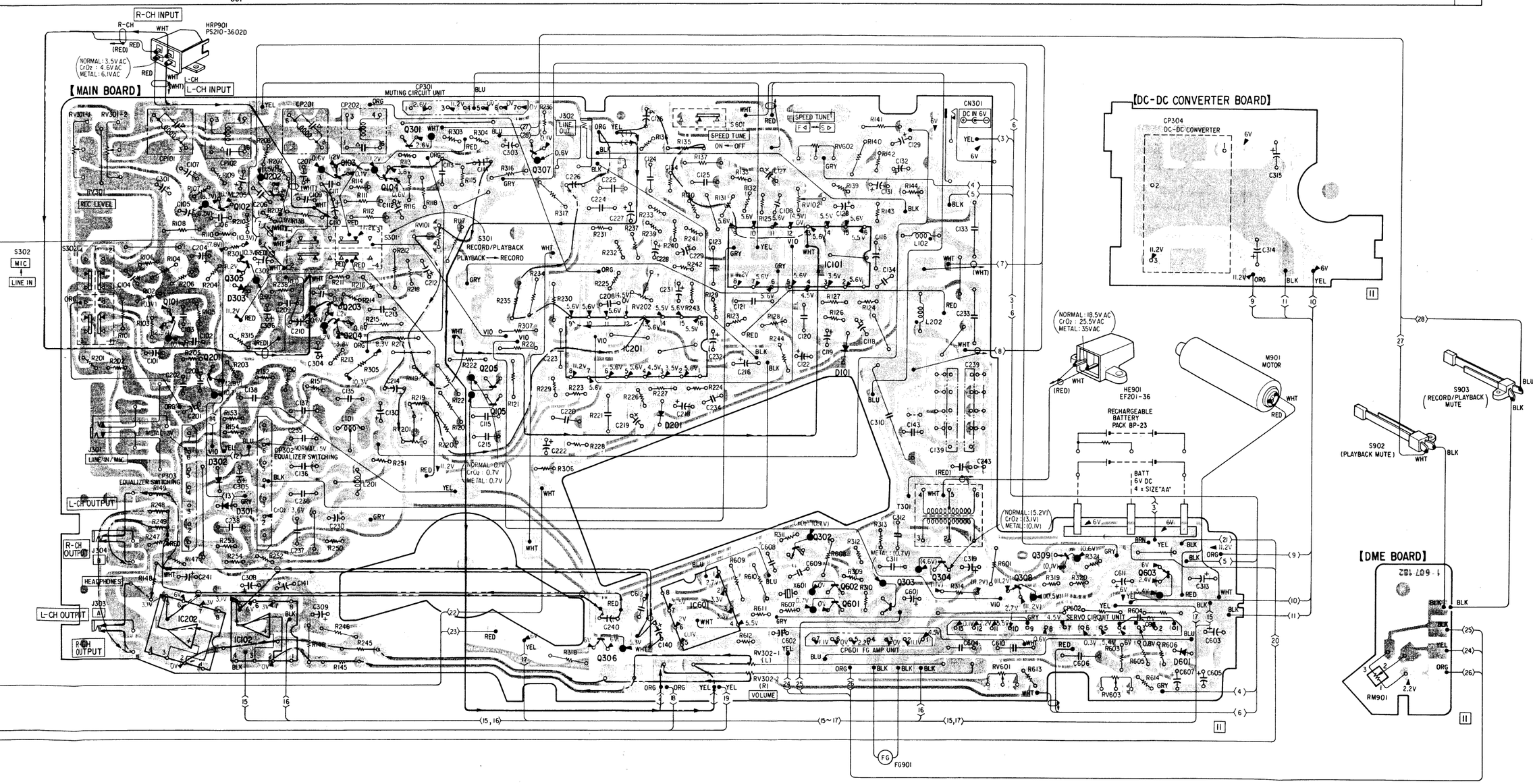


- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- : B+ pattern
- ▬▶▬ : signal path
- ▬·▬▶ : L-CH signal path
- ▬··▬▶ : R-CH signal path

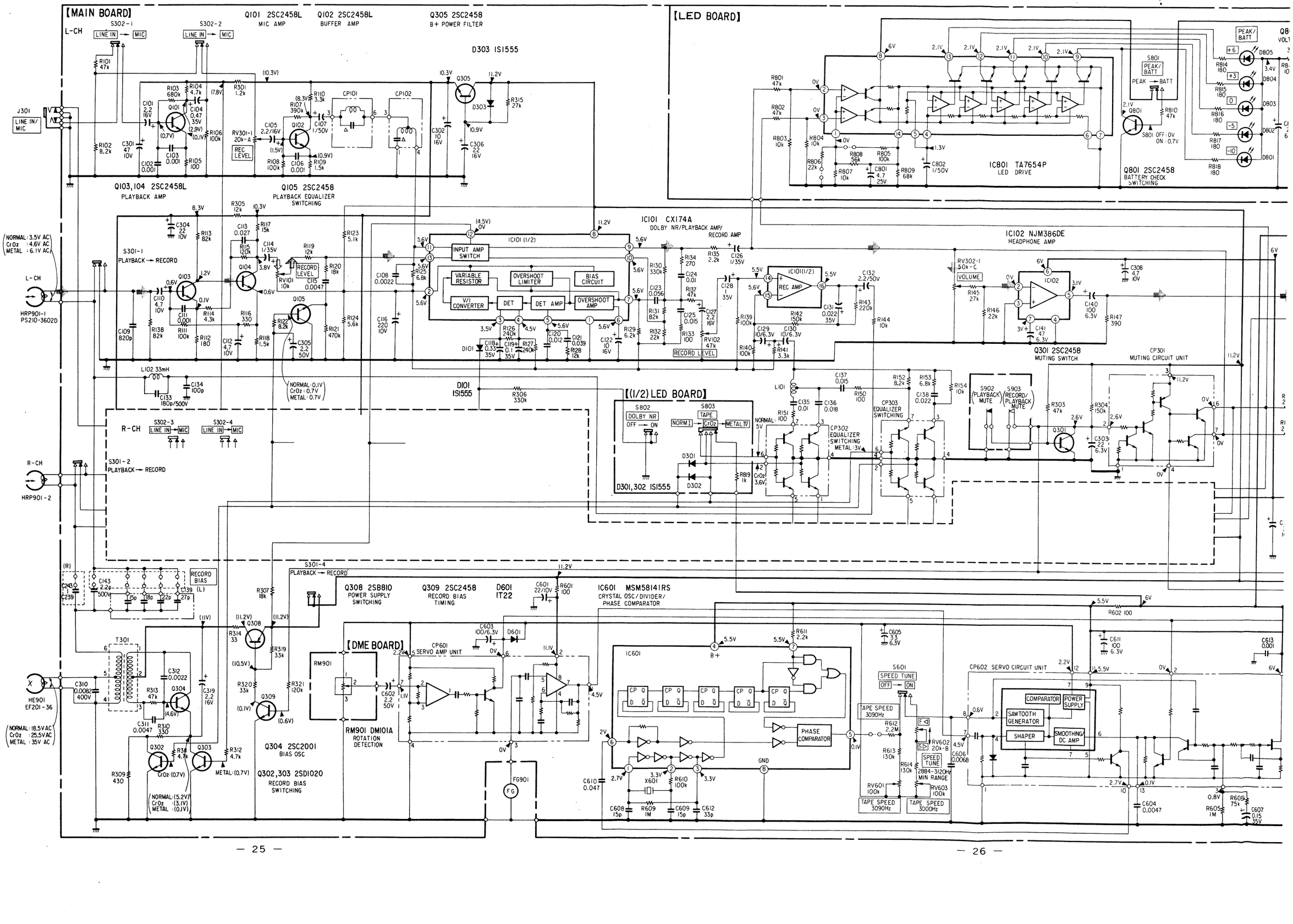


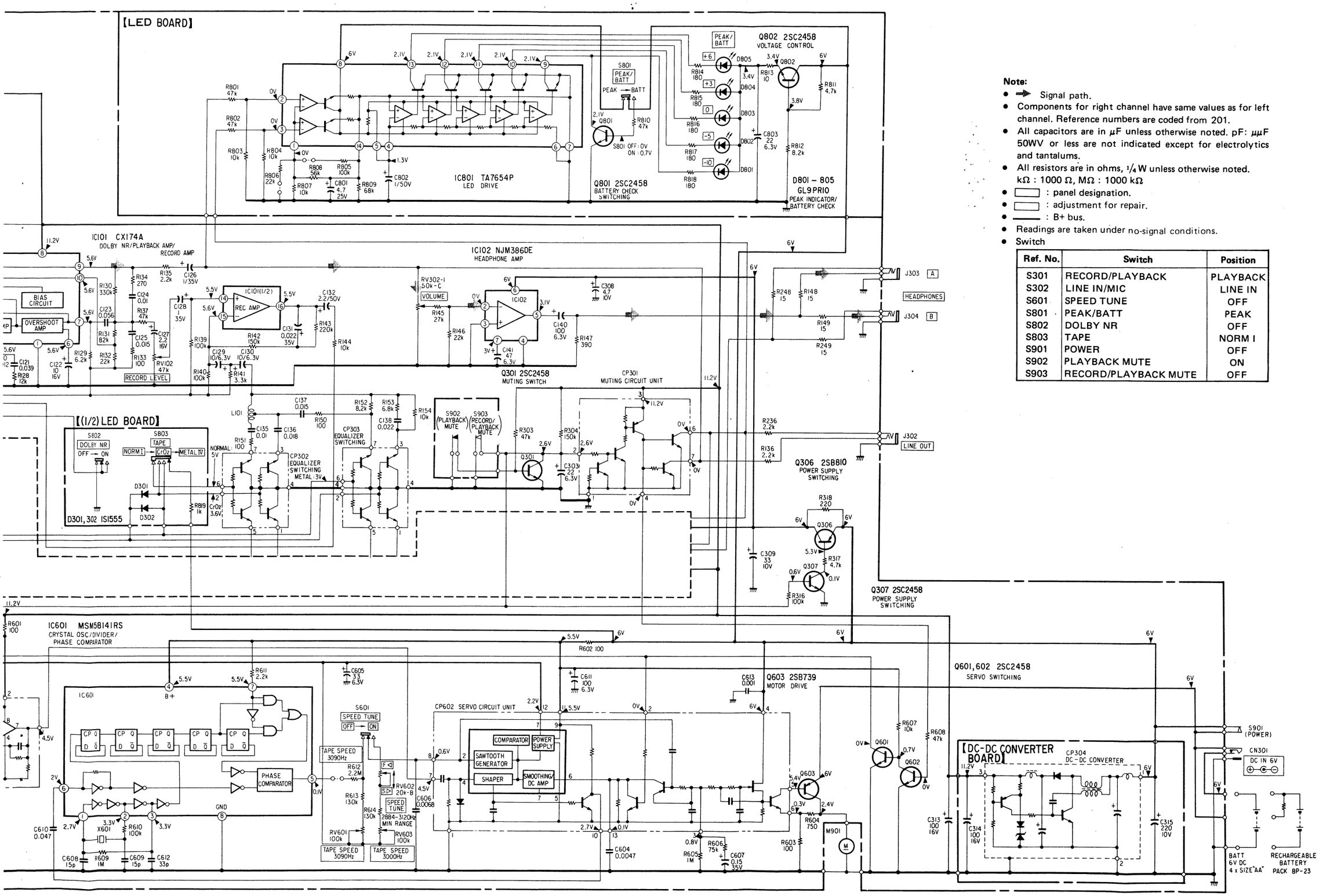
E F G H I J K

1 2 3 4 5



4-2. SCHEMATIC DIAGRAM

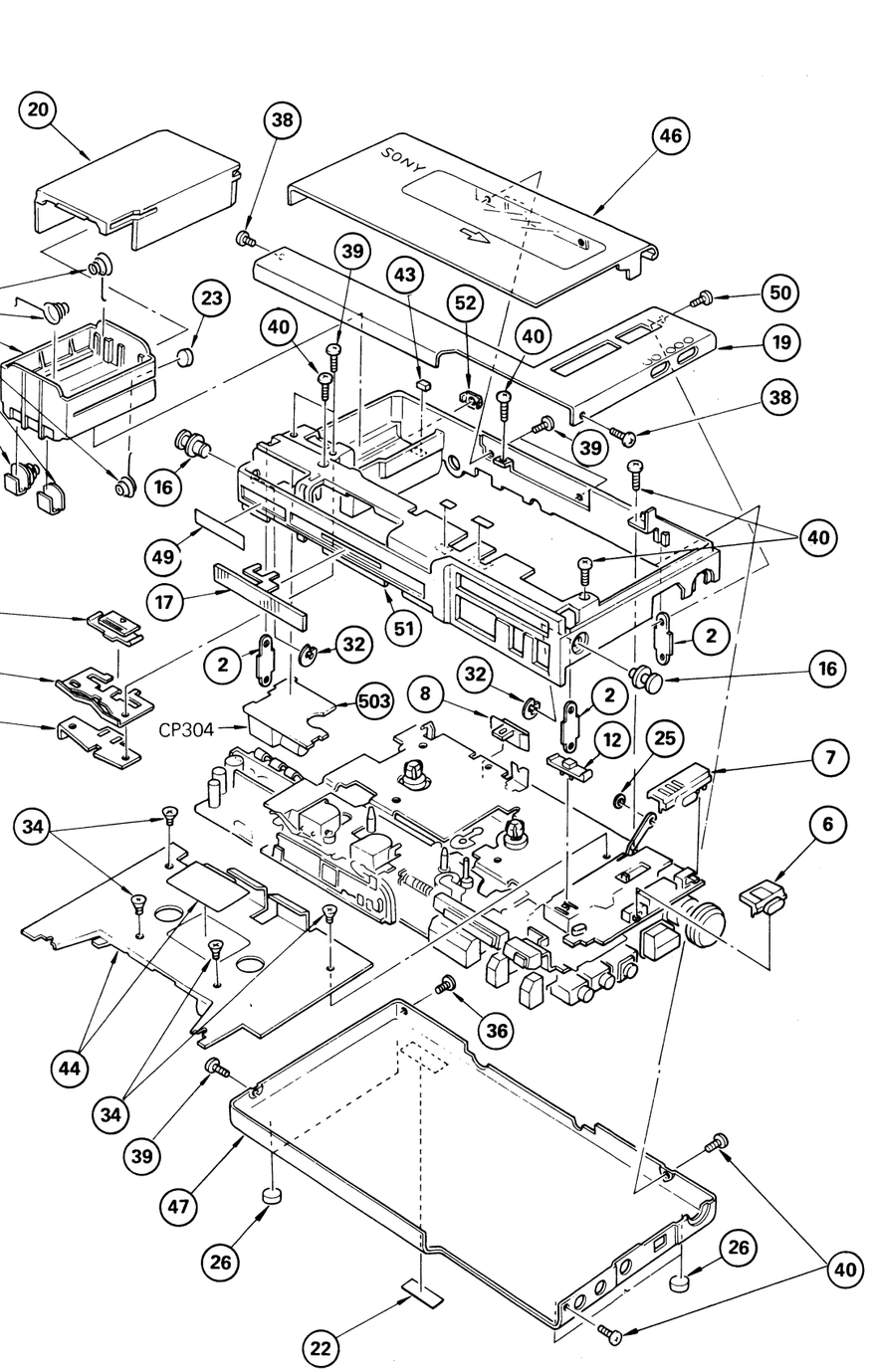




Note:

- ➡ Signal path.
- Components for right channel have same values as for left channel. Reference numbers are coded from 201.
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/4 W unless otherwise noted. kΩ : 1000 Ω, MΩ : 1000 kΩ
- ▭ : panel designation.
- ▭ : adjustment for repair.
- ——— : B+ bus.
- Readings are taken under no-signal conditions.
- Switch

Ref. No.	Switch	Position
S301	RECORD/PLAYBACK	PLAYBACK
S302	LINE IN/MIC	LINE IN
S601	SPEED TUNE	OFF
S801	PEAK/BATT	PEAK
S802	DOLBY NR	OFF
S803	TAPE	NORM I
S901	POWER	OFF
S902	PLAYBACK MUTE	ON
S903	RECORD/PLAYBACK MUTE	OFF


(1)
A
B
C
D
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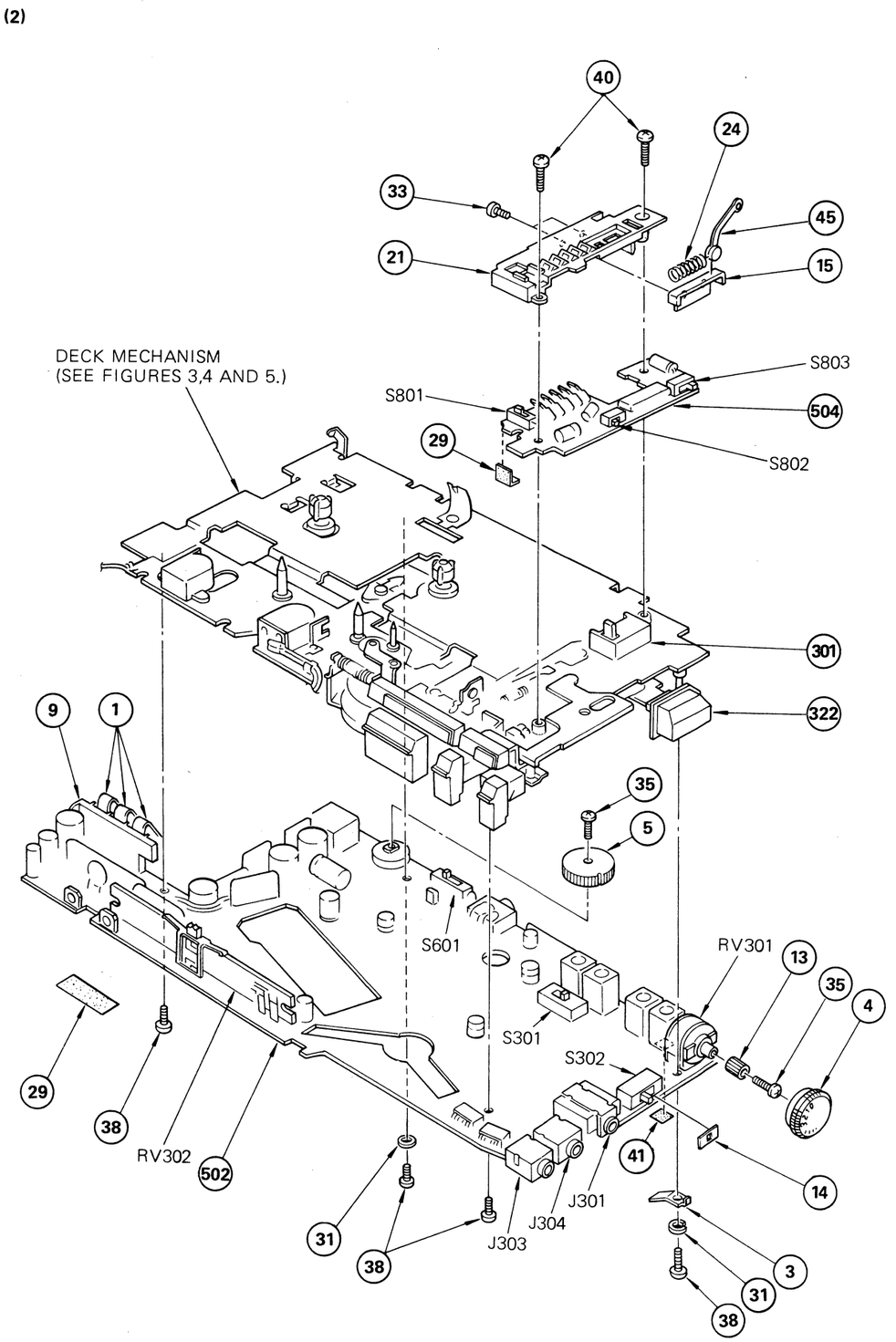
SONY
CP304


(2)
A
B
C
D
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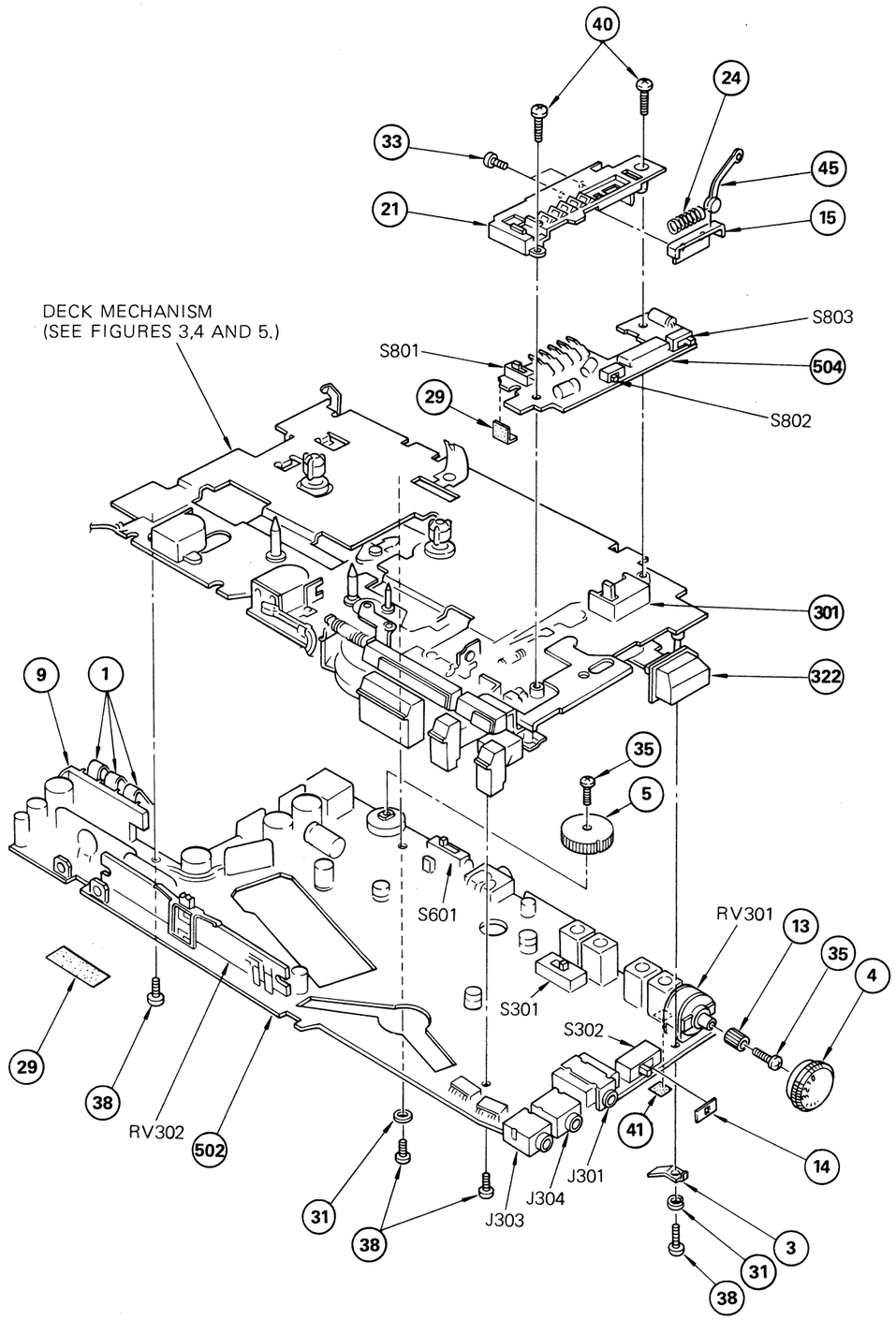
DECK MECHANISM
(SEE FIGURES 3,4 AND 5.)
S801
S802
S803
S301
S302
S601
RV301
RV302
J301
J303
J304

(2)


40
24
33
45
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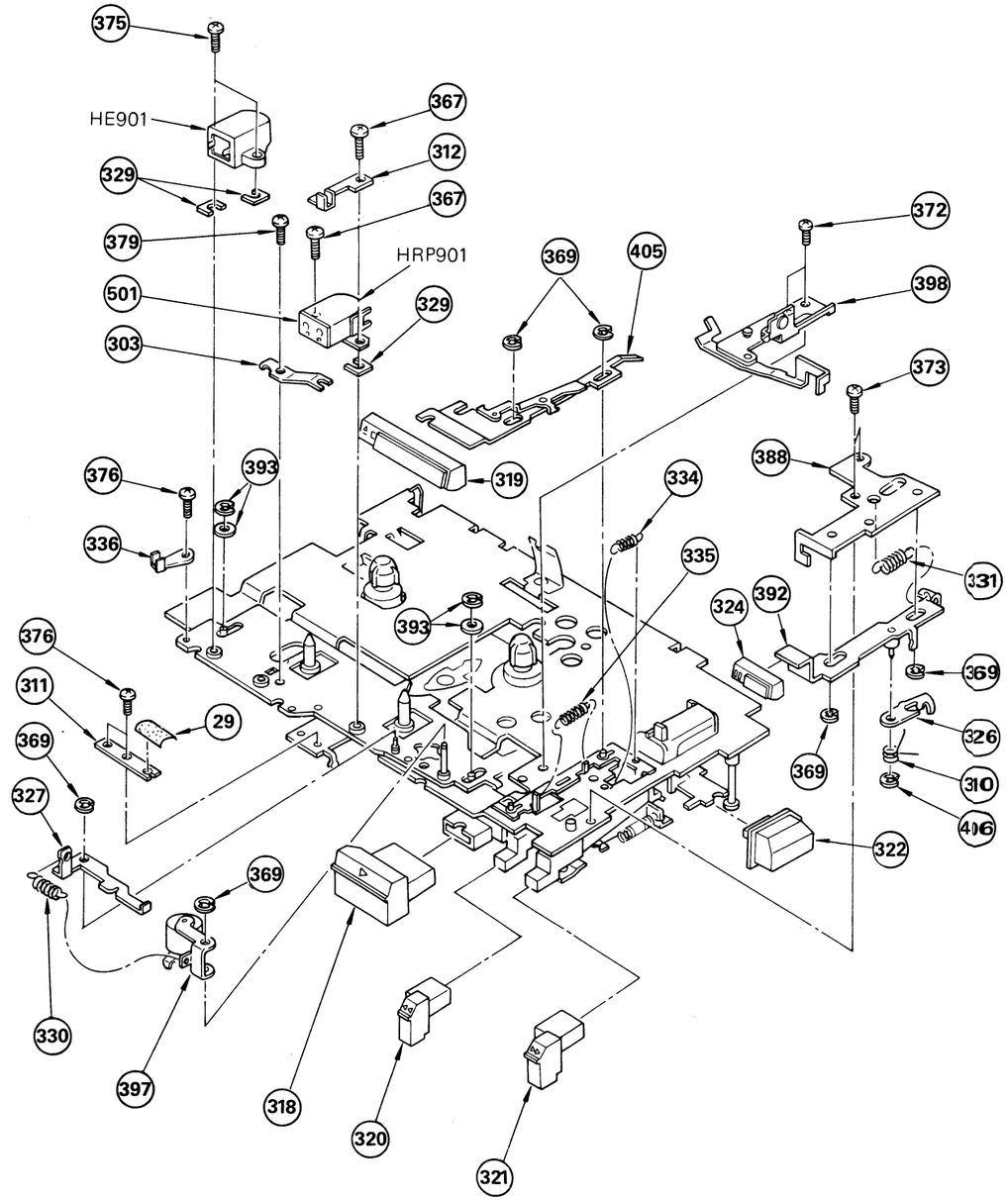
15
DECK MECHANISM
(SEE FIGURES 3,4 AND 5.)
S803
S801
504
29
S802
301
322
9
1
35
5
S601
RV301
13
35
4
S301
S302
29
38
RV302
502
41
14
31
38
J303
J304
J301
3
31
38

(3)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HE901
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HRP901
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501
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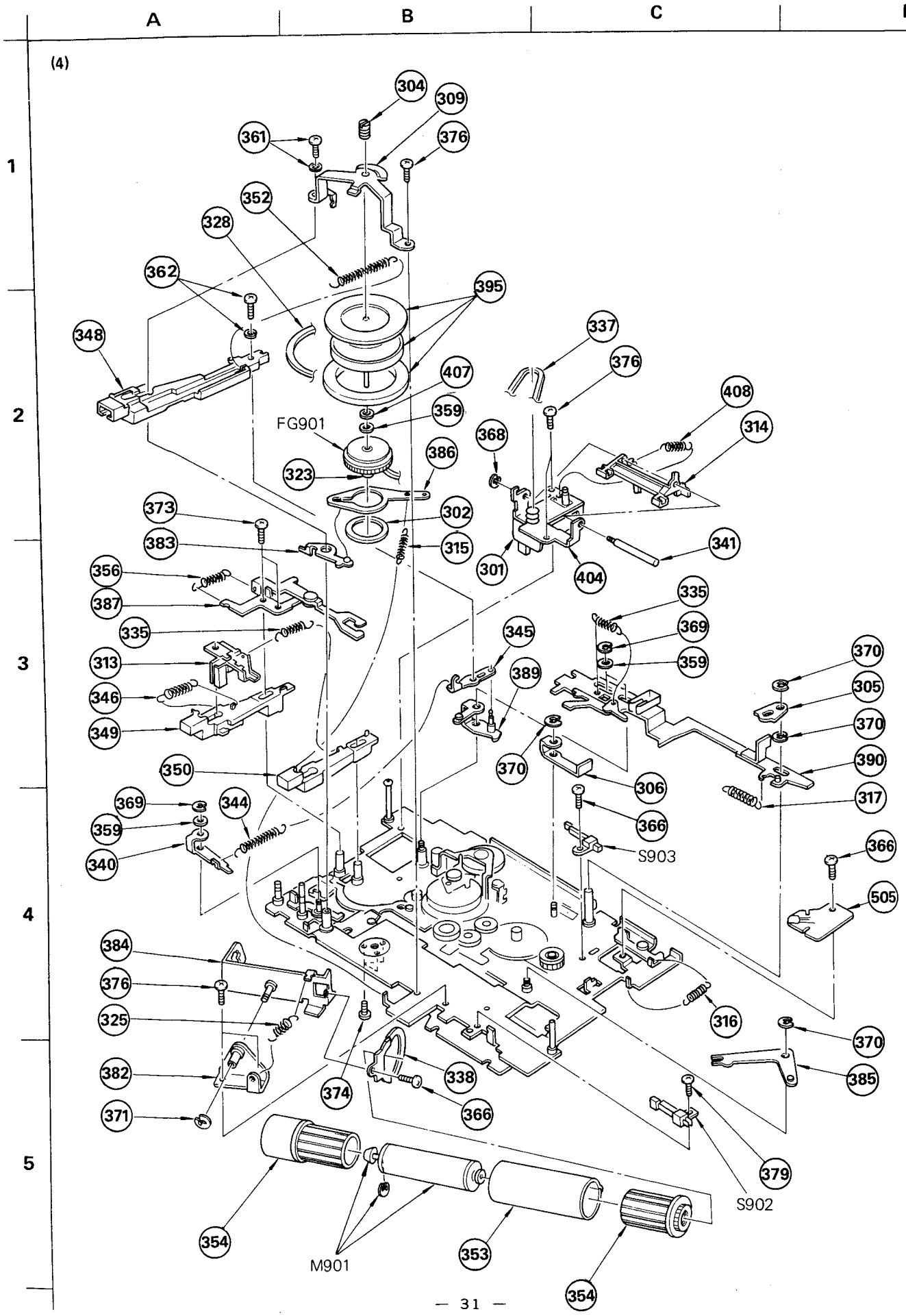
A
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304
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FG901
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301
404
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389
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305
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306
369
344
317
366
359
S903
340
366
505
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S902
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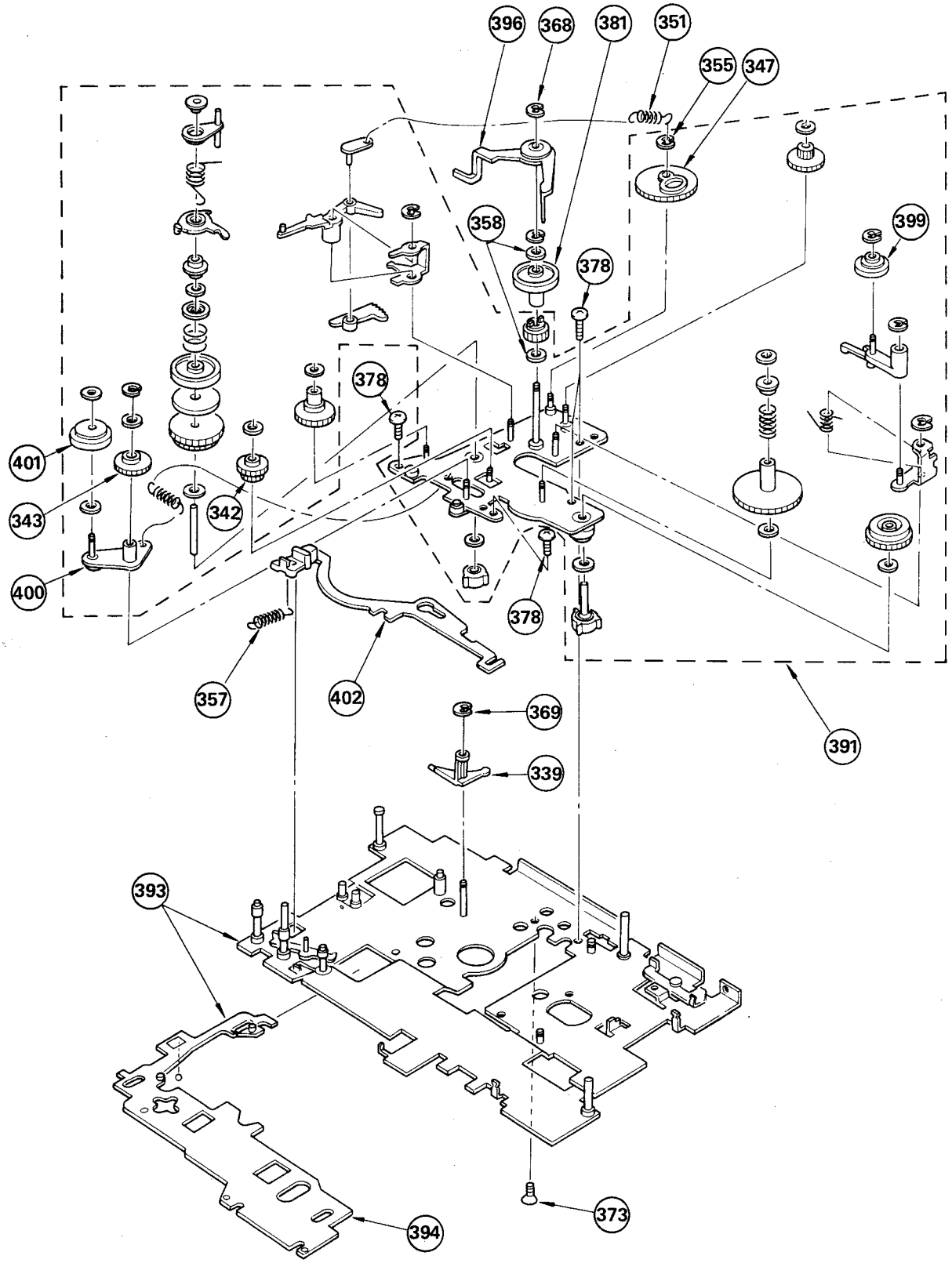
M901
354
— 31 —

(5)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GENERAL SECTION

No.	Part No.	Description
1	3-305-801-00	SPRING
2	3-305-802-00	PLATE, NUT
3	3-305-804-00	SPRING, PLATE
4	3-305-867-00	KNOB (A), CONTROL, REC
5	3-305-868-00	KNOB, SPEED CONTROL
6	3-305-870-00	KNOB, DOLBY SWITCH
7	3-305-871-00	KNOB, TAPE SELECTOR
8	3-305-872-00	KNOB, SWITCH, SPEED CONTROL
9	3-305-873-00	TERMINAL BOARD, BATTERY
10	3-305-874-00	SPRING
11 ♦	3-305-875-00	CHASSIS, CLAW, LOCK
12	3-305-876-00	KNOB, METER
13	3-305-880-00	KNOB (B), CONTROL, REC
14	3-305-887-00	COVER, SWITCH
15 ♦	3-305-888-00	RETAINER
16	3-305-889-00	SHAFT, BELT, CARRYING
17	3-305-891-00	KNOB, CONTROL, SLIDE
18	3-305-892-00	CLAW, LOCK
19	3-305-893-00	PANEL, UPPER
20	3-305-896-00	CASE, BATTERY
21	3-305-897-00	HOLDER, LED
22	3-513-211-00	LABEL
23	3-527-126-00	MARK, BATTERY CASE
24	3-557-575-00	SPRING, COMPRESSION
25	3-570-615-00	POLY-WASHER (DIA.1.2)
26	3-570-903-00	LEG
27	3-574-744-00	NUT, PLATE
28	3-703-502-22	SCREW
29	3-831-441-XX	SPACER
30	7-621-255-15	SCREW +P 2X3
31	7-623-203-11	SW 1.4, TYPE 1
32	7-624-106-04	RING, RETAINING E-3
33	7-627-451-38	SCREW, PRECISION +K 1.4X2
34	7-627-551-08	SCREW, PRECISION +P 1.4X1.6
35	7-627-552-37	SCREW, PRECISION +P 1.7X3
36	7-627-850-08	SCREW, PRECISION +P 1.4X2
37	7-627-850-18	SCREW, PRECISION +P 1.4X2.5
38	7-627-850-27	SCREW, PRECISION +P 1.4X3
39	7-627-850-28	SCREW, PRECISION +P 1.4X3
40	7-627-850-58	SCREW, PRECISION +P 1.4X3.5
41	9-911-837-XX	SPACER
42	9-911-841-XX	CUSHION (B)
43	9-911-845-XX	CUSHION (A)
44	A-3043-068-A	PANEL SUB ASSY, REEL
45	X-3305-801-0	ARM ASSY

GENERAL SECTION

No.	Part No.	Description
46	X-3305-818-0	LID ASSY, CASSETTE
47	X-3305-819-0	PANEL ASSY, LOWER
48	X-3564-820-0	HOLDER ASSY, BATTERY
49	3-305-884-00	LABEL, FRONT
50	7-627-551-28	SCREW, PRECISION, +P 1.4X2.5
51	X-3305-829-0	CASE ASSY
52	3-574-744-00	NUT (B), PLATE

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
91	1-555-658-00	CORD, CONNECTION (RK-129)
92	3-305-935-00	SPACER
93	3-305-936-00	INDIVIDUAL CARTON (BODY)
94	3-305-938-00	CUSHION
95	3-305-940-00	BAND, SHOULDER
96	3-305-941-00	CASE, CARRYING
97	3-305-942-00	COVER, ACCESSORY
98	3-305-946-00	INDIVIDUAL CARTON (LID)
99	3-570-631-71	BAG, POLYETHYLENE
100 ♦	3-701-618-00	BAG, POLYETHYLENE
101	3-701-625-00	BAG, POLYETHYLENE
102	3-701-999-00	LABEL, SERIAL NUMBER
103	3-783-917-11	MANUAL, INSTRUCTION
104	3-795-365-11	CARD, WARRANTY
105	8-893-533-01	TAPE (CD-816)
106	8-951-170-90	MDR-50L SET

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

COILS

- MMH : mH, UH : μH

SEMICONDUCTORS

In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

MECHANISM SECTION

No.	Part No.	Description
301	1-548-516-41	TIMER, TAPE
302	♣;3-305-807-00	RING, MOTOR LEVER
303	3-305-808-00	SPRING
304	3-305-810-00	SCREW, THRUST ADJUSTMENT
305	3-305-812-00	LEVER (C), REC
306	♣;3-305-815-00	LEVER (A), MUTING
307	3-305-839-00	ROLLER (SMALL)
308	3-305-839-00	ROLLER (SMALL)
309	3-305-846-00	RETAINER, THRUST
310	3-305-856-00	SPRING
311	♣;3-305-857-00	RETAINER, FG LEAD WIRE
312	3-305-858-00	CLAMP, LEAD WIRE
313	3-305-863-00	HOLDER, LEAD WIRE
314	3-305-865-00	PLATE, LOCK
315	3-305-901-00	SPRING, TENSION
316	3-305-902-00	SPRING, TENSION
317	3-305-903-00	SPRING, TENSION
318	3-305-904-00	BUTTON, FWD
319	3-305-905-00	BUTTON, STOP
320	3-305-906-00	BUTTON, REW
321	3-305-907-00	BUTTON, FF
322	3-305-908-00	BUTTON, REC
323	3-305-910-00	BEARING (A), CAPSTAN
324	3-305-911-00	BUTTON, PAUSE
325	3-305-914-00	SPRING, TENSION
326	3-305-915-00	PLATE, LOCK, PAUSE
327	3-305-917-00	PLATE (B), RELEASE, PINCH
328	3-480-136-00	BELT (B)
329	3-513-237-01	PLATE
330	3-527-189-00	SPRING, TENSION
331	3-527-190-00	SPRING, TENSION
332	3-545-696-11	WASHER, POLYETHYLENE
333	3-547-666-00	SPRING, TENSION
334	3-547-667-00	SPRING, TENSION
335	3-547-669-00	SPRING, TENSION
336	♣;3-547-686-00	CLAMP (B), WIRE
337	3-554-103-00	BELT, DRIVING
338	♣;3-556-269-00	BRACKET (B), M
339	3-557-402-00	LEVER (C), RELEASE
340	3-557-405-00	LEVER, SPRING HOOK
341	3-557-408-00	SHAFT, LOCK PLATE
342	3-557-439-00	GEAR (A), F.R
343	3-557-440-00	GEAR (B), F.R
344	3-557-495-00	SPRING, TENSION
345	3-557-497-00	ARM, JOINT

MECHANISM SECTION

No.	Part No.	Description
346	3-557-498-00	SPRING, TENSION
347	3-557-509-00	GEAR (3)
348	3-557-514-00	LEVER, FWD
349	3-557-515-00	LEVER, FF
350	3-557-516-00	LEVER, REWIND
351	3-557-579-00	SPRING, TENSION
352	3-557-581-00	SPRING, TENSION
353	3-557-805-00	CASE, SHIELD, M
354	3-557-813-00	RUBBER, VIBRATION PROOF
355	3-559-408-00	POLY-WASHER, 1.2 DIA
356	3-563-104-00	SPRING, TENSION
357	3-570-894-00	SPRING, TENSION
358	3-701-436-01	WASHER, 1.6
359	3-701-437-01	WASHER
360	3-701-437-11	WASHER
361	3-703-502-32	SCREW
362	3-703-502-62	SCREW
363	3-831-441-XX	SPACER
364	0-435-230-00	WASHER
365	0-435-231-00	WASHER (PRESS FITTING), POLY
366	7-621-255-15	SCREW +P 2X3
367	7-621-255-25	SCREW +P 2X4
368	7-624-101-01	RING, RETAINING E-1.2
369	7-624-102-04	STOP RING 1.5, TYPE -E
370	7-624-104-04	STOP RING 2.0, TYPE -E
371	7-624-105-04	STOP RING 2.3, TYPE -E
372	7-627-451-08	SCREW, PRECISION +K 1.4X1.6
373	7-627-451-27	SCREW, PRECISION +K 1.4X3
374	7-627-551-68	SCREW, PRECISION +P 1.4X3.5
375	7-627-553-57	SCREW, PRECISION +P 2X4.5
376	7-627-850-07	SCREW, PRECISION +P 1.4X2
377	7-627-850-27	SCREW, PRECISION +P 1.4X3
378	7-627-850-47	SCREW, PRECISION +P 1.4X1.6
379	7-627-851-27	SCREW, PRECISION +P 1.4X5
380	7-671-111-01	STEEL BALL 1MM
381	X-3305-804-0	PULLEY ASSY, MIDWAY
382	♣;X-3305-806-0	BRACKET ASSY, MOTOR SHAFT
383	X-3305-807-0	LEVER (A) ASSY, MOTOR
384	♣;X-3305-808-0	BRACKET ASSY, MOTOR
385	X-3305-809-0	LEVER (C) ASSY, MOTOR
386	X-3305-810-0	LEVER (B) ASSY, MOTOR
387	X-3305-811-0	CHASSIS ASSY, SO
388	X-3305-812-0	CHASSIS ASSY, PAUSE
389	X-3305-813-0	LEVER (B) ASSY, REC
390	X-3305-814-0	LEVER (A) ASSY, REC

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " ♣ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:
- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

MECHANISM SECTION

No.	Part No.	Description
391	X-3305-817-0	COMPLETE PCB, BEARING TABLE
392	X-3305-821-0	LEVER ASSY, PAUSE
393 ♦	X-3305-822-0	CHASSIS ASSY, MECHANICAL
394 ♦	X-3305-823-0	CHASSIS ASSY, HEAD
395	X-3305-824-0	FLYWHEEL BLOCK ASSY
396 ♦	X-3305-826-0	LEVER ASSY, PREVENTION, SO
397	X-3305-827-0	PINCH LEVER ASSY
398	X-3305-828-0	TABLE ASSY, EJECT LEVER
399	X-3557-407-2	IDLER ASSY, FWD
400 ♦	X-3557-408-0	LEVER (B) ASSY, F.R
401	X-3557-409-0	PULLEY ASSY, F.R
402	X-3557-411-0	LEVER (A) ASSY, F.R
403	X-3557-416-0	LEVER ASSY, SHUT-OFF
404	X-3557-433-0	BRACKET ASSY, COUNTER
405	X-3568-702-0	LEVER ASSY, STOP
406	3-305-926-00	WASHER, POLYETHYLENE 1.7
407	3-305-925-00	WASHER, 2.0
408	3-570-587-00	SPRING, TENSION

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
501 ♦	1-602-598-00	PC BOARD, HEAD			
502 ♦	1-607-179-00	PC BOARD, MAIN			
503 ♦	1-607-180-00	PC BOARD, DC-DC CONVERTER			
504 ♦	1-607-181-00	PC BOARD, LED			
505 ♦	1-607-182-00	PC BOARD, DME			
C109	1-102-117-00	CERAMIC	820PF	10%	50V
C133	1-107-175-00	MICA	180PF	5%	500V
C134	1-102-106-00	CERAMIC	100PF	10%	50V
C143	1-107-042-00	MICA	2.2PF	0.5PF	500V
C209	1-102-117-00	CERAMIC	820PF	10%	50V
C233	1-107-175-00	MICA	180PF	5%	500V
C234	1-102-106-00	CERAMIC	100PF	10%	50V
C243	1-107-042-00	MICA	2.2PF	0.5PF	500V
C310	1-130-896-00	FILM	0.0082MF	5%	400V
C610	1-161-021-00	CERAMIC	0.047MF	10%	25V
CN301	1-507-749-00	JACK, EXTENTION POWER			
CP101	1-235-118-00	FILTER, LOW PASS			
CP102	1-235-117-00	FILTER, LOW PASS			
CP201	1-235-118-00	FILTER, LOW PASS			
CP202	1-235-117-00	FILTER, LOW PASS			
CP301	1-464-177-00	CIRCUIT UNIT, MUTING			
CP302	1-464-176-00	CIRCUIT UNIT, SWITCHING			
CP303	1-464-176-00	CIRCUIT UNIT, SWITCHING			
CP304	1-464-183-00	CONVERTER UNIT, DC-DC			
CP601	1-464-174-00	AMPLIFIER UNIT, FG			
CP602	1-464-175-00	CIRCUIT UNIT, SERVO			
D101	8-719-815-55	DIODE 1S1555			
D201	8-719-815-55	DIODE 1S1555			
D301	8-719-815-55	DIODE 1S1555			
D302	8-719-815-55	DIODE 1S1555			
D303	8-719-815-55	DIODE 1S1555			
D601	8-719-622-11	DIODE 1T22			
D801	8-719-909-10	DIODE GL-9PR10			
D802	8-719-909-10	DIODE GL-9PR10			
D803	8-719-909-10	DIODE GL-9PR10			
D804	8-719-909-10	DIODE GL-9PR10			
D805	8-719-909-10	DIODE GL-9PR10			
FG901	A-3164-245-A	COIL SUB ASSY, FG			
HE901	8-825-724-00	HEAD, ERASE EF-201-36			
HRP901	8-825-733-20	HEAD, PLAYBACK (PS-210-3602D)			
IC101	8-759-300-76	IC CX174A-2			
IC102	8-759-700-02	IC NJM386D-E			
IC201	8-759-300-76	IC CX174A-2			

NOTE:
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- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:
- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

ELECTRICAL PARTS

Ref.No.	Part No.	Description
IC202	8-759-700-02	IC NJM386D-E
IC601	8-759-958-14	IC MSM58141RS
IC801	8-759-276-54	IC TA7654P
J301	1-507-688-31	JACK (STEREO PLUG)
J302	1-507-787-21	JACK
J303	1-507-787-11	JACK
J304	1-507-787-11	JACK
L102	1-408-704-00	MICRO INDUCTOR 33MMH
L202	1-408-704-00	MICRO INDUCTOR 33MMH
M901	X-3305-830-1	MOTOR ASSY
Q101	8-729-205-83	TRANSISTOR 2SC2458L
Q102	8-729-205-83	TRANSISTOR 2SC2458L
Q103	8-729-205-83	TRANSISTOR 2SC2458L
Q104	8-729-205-83	TRANSISTOR 2SC2458L
Q105	8-729-245-83	TRANSISTOR 2SC2458
Q201	8-729-205-83	TRANSISTOR 2SC2458L
Q202	8-729-205-83	TRANSISTOR 2SC2458L
Q203	8-729-205-83	TRANSISTOR 2SC2458L
Q204	8-729-205-83	TRANSISTOR 2SC2458L
Q205	8-729-245-83	TRANSISTOR 2SC2458
Q301	8-729-245-83	TRANSISTOR 2SC2458
Q302	8-729-102-03	TRANSISTOR 2SD1020H
Q303	8-729-102-03	TRANSISTOR 2SD1020
Q304	8-729-100-13	TRANSISTOR 2SC2001
Q305	8-729-245-83	TRANSISTOR 2SC2458
Q306	8-729-181-04	TRANSISTOR 2SB810
Q307	8-729-245-83	TRANSISTOR 2SC2458
Q308	8-729-181-04	TRANSISTOR 2SB810
Q309	8-729-245-83	TRANSISTOR 2SC2458
Q601	8-729-245-83	TRANSISTOR 2SC2458
Q602	8-729-245-83	TRANSISTOR 2SC2458
Q603	8-729-373-91	TRANSISTOR 2SB739
Q801	8-729-245-83	TRANSISTOR 2SC2458
Q802	8-729-245-83	TRANSISTOR 2SC2458

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R612	1-211-697-00	CARBON	2.2M	10%	1/16W
R613	1-214-780-00	METAL	130K	1%	1/4W
R614	1-214-780-00	METAL	130K	1%	1/4W
R803	1-209-781-00	CARBON	10K	5%	1/16W
R804	1-209-781-00	CARBON	10K	5%	1/16W
R806	1-210-114-00	CARBON	22K	5%	1/16W
R807	1-209-781-00	CARBON	10K	5%	1/16W
R814	1-210-360-00	CARBON	180	5%	1/16W
R815	1-210-360-00	CARBON	180	5%	1/16W
R816	1-210-360-00	CARBON	180	5%	1/16W
R817	1-210-360-00	CARBON	180	5%	1/16W
R819	1-204-122-00	CARBON	1K	5%	1/16W
RM901	8-749-011-01	DM-101A-1			
RV101	1-226-710-00	RES, ADJ, SOLID 10K			
RV102	1-226-753-00	RES, ADJ, SOLID 47K			
RV201	1-226-710-00	RES, ADJ, SOLID 10K			
RV202	1-226-753-00	RES, ADJ, SOLID 47K			
RV301	1-228-276-00	RES, VAR, CARBON 20K/20K			
RV302	1-228-545-00	RES, VAR, SLIDE 50K/50K			
RV601	1-226-784-00	RES, ADJ, METAL GLAZE 100K			
RV602	1-228-607-00	RES, VAR, CARBON 20K			
RV603	1-226-784-00	RES, ADJ, METAL GLAZE 100K			
S301	1-554-029-00	SWITCH, SLIDE			
S302	1-553-942-00	SWITCH, SLIDE			
S601	1-554-142-00	SWITCH, SLIDE			
S801	1-553-197-00	SWITCH, SLIDE			
S802	1-553-906-00	SWITCH, SLIDE			
S803	1-552-642-00	SWITCH			
S901	1-553-226-00	SWITCH, LEAF			
S902	1-552-181-00	SWITCH, LEAF			
S903	1-553-198-00	SWITCH, LEAF			
T301	1-433-244-00	TRANSFORMER, BIAS OSCILLATOR			
X601	1-527-957-00	OSCILLATOR, CRYSTAL			

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:
- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

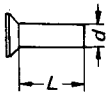
RESISTORS
- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

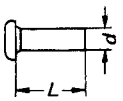
DIMENSIONS AND PART NO. OF PRECISION SCREWS

⊕ *K*
(Flat-countersunk-head screw)



Type	Size (mm) (d × L)	Part No.	
		Black	Silver
Type 1	K1.4 × 1.6	7-627-451-08	7-627-451-07
	K1.4 × 1.8		
	K1.4 × 2	7-627-451-38	7-627-451-37
	K1.4 × 2.2		
	K1.4 × 2.5	7-627-451-18	7-627-451-17
	K1.4 × 2.8		
	K1.4 × 3	7-627-451-28	7-627-451-27
	K1.4 × 3.5		7-627-451-47
	K1.4 × 4		
	K1.4 × 4.5		
	K1.4 × 5	7-627-451-78	7-627-451-77
	K1.7 × 1.8		
	K1.7 × 2		
	K1.7 × 2.2		
	K1.7 × 2.5		
	K1.7 × 2.8		
	K1.7 × 3		
	K1.7 × 3.5		
	K1.7 × 4	7-627-450-78	
	K1.7 × 4.5		
	K1.7 × 5		
	K1.7 × 5.5		
	K1.7 × 6		
	K2 × 2	7-627-452-08	7-627-452-07
	K2 × 2.2		—
	K2 × 2.5		—
	K2 × 2.8		—
	K2 × 3	7-627-452-18	7-627-452-17
	K2 × 3.5		—
	K2 × 4	7-627-452-28	
	K2 × 4.5		
	K2 × 5	7-627-452-38	
	K2 × 5.5		
	K2 × 6		
	K2 × 7		
	K2 × 8		

⊕ *P*
(Pan-head screw)



Type	Size (mm) (d × L)	Part No.	
		Black	Silver
Type 1	P1.4 × 1.4		7-627-551-47
	P1.4 × 1.6	7-627-551-08	7-627-551-07
	P1.4 × 1.8		
	P1.4 × 2	7-627-551-18	7-627-551-17
	P1.4 × 2.2		
	P1.4 × 2.5	7-627-551-28	7-627-551-27
	P1.4 × 2.8	7-627-551-88	
	P1.4 × 3	7-627-551-58	7-627-551-57
	P1.4 × 3.5	7-627-551-68	7-627-551-67
	P1.4 × 4	7-627-551-78	7-627-551-77
	P1.4 × 4.5		
	P1.4 × 5	7-627-551-38	7-627-551-37
	P1.7 × 1.6	7-627-552-18	
	P1.7 × 1.8		
	P1.7 × 2	7-627-552-28	7-627-552-27
	P1.7 × 2.2		
	P1.7 × 2.5	7-627-552-08	7-627-552-07
	P1.7 × 2.8		
	P1.7 × 3	7-627-552-38	7-627-552-37
	P1.7 × 3.5	7-627-552-78	
	P1.7 × 4	7-627-552-48	7-627-552-47
	P1.7 × 4.5		7-627-552-67
	P1.7 × 5	7-627-552-58	7-627-552-57
	P1.7 × 5.5		
	P1.7 × 6		
	P2 × 1.8		
	P2 × 2	7-627-553-18	7-627-553-17
	P2 × 2.2		7-627-554-07
	P2 × 2.5	7-627-553-28	7-627-553-27
	P2 × 2.8		
	P2 × 3	7-627-553-38	7-627-553-37
	P2 × 3.5		7-627-554-17
	P2 × 4	7-627-553-48	7-627-553-47
	P2 × 4.5	7-627-553-58	7-627-553-57
	P2 × 5		7-627-553-67
	P2 × 5.5		
	P2 × 6		
	P2 × 7	7-627-553-88	7-627-553-87
	P2 × 8	7-627-553-98	7-627-553-97
	P2 × 10	7-627-553-78	7-627-553-77
Type 3	P1.4 × 1.4		7-627-850-37
	P1.4 × 1.6		7-627-850-47
	P1.4 × 1.8		7-627-850-77
	P1.4 × 2	7-627-850-08	7-627-850-07
	P1.4 × 2.2		
	P1.4 × 2.5	7-627-850-18	7-627-850-17
	P1.4 × 2.8		
	P1.4 × 3	7-627-850-28	7-627-850-27
	P1.4 × 3.5	7-627-850-58	7-627-850-57
	P1.4 × 4	7-627-850-68	7-627-850-67
	P1.4 × 4.5		7-627-851-17
	P1.4 × 5		7-627-851-27

1/16 WATT CARBON RESISTOR

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
2.0	—	13	—	91	1-210-354-00	620	1-210-367-00	4.3k	1-209-772-00	30k	1-210-380-00	200k	1-210-839-00
2.2	—	15	—	100	1-210-355-00	680	1-210-106-00	4.7k	1-209-773-00	33k	1-210-381-00	220k	1-210-840-00
2.4	—	16	—	110	1-210-356-00	750	1-210-107-00	5.1k	1-209-774-00	36k	1-210-394-00	240k	—
2.7	—	18	1-211-688-00	120	1-210-357-00	820	1-210-108-00	5.6k	1-209-775-00	39k	1-210-382-00	270k	1-210-841-00
3.0	—	20	—	130	1-210-358-00	910	1-210-368-00	6.2k	1-209-776-00	43k	1-210-383-00	300k	—
3.3	—	22	—	150	1-210-102-00	1.0k	1-204-122-00	6.8k	1-209-777-00	47k	1-210-384-00	330k	1-210-842-00
3.6	—	24	—	160	1-210-359-00	1.1k	1-210-369-00	7.5k	1-209-778-00	51k	1-210-385-00	360k	—
3.9	—	27	—	180	1-210-360-00	1.2k	1-209-765-00	8.2k	1-209-779-00	56k	1-210-386-00	390k	1-210-843-00
4.3	—	30	1-210-845-00	200	1-210-361-00	1.3k	1-210-370-00	9.1k	1-209-780-00	62k	1-210-387-00	430k	—
4.7	—	33	1-210-846-00	220	1-210-362-00	1.5k	1-209-766-00	10k	1-209-781-00	68k	1-210-388-00	470k	1-210-844-00
5.1	—	36	1-210-847-00	240	1-209-762-00	1.6k	1-210-371-00	11k	1-210-374-00	75k	1-210-389-00	510k	—
5.6	—	39	1-210-848-00	270	1-210-363-00	1.8k	1-209-878-00	12k	1-210-111-00	82k	1-210-390-00	560k	1-211-695-00
6.2	—	43	1-210-849-00	300	1-210-364-00	2.0k	1-209-767-00	13k	1-210-375-00	91k	1-210-391-00	620k	—
6.8	—	47	1-210-395-00	330	1-209-763-00	2.2k	1-209-768-00	15k	1-210-112-00	100k	1-210-115-00	680k	1-211-696-00
7.5	—	51	1-210-101-00	360	1-210-103-00	2.4k	1-209-769-00	16k	1-210-376-00	110k	—	750k	—
8.2	—	56	1-210-351-00	390	1-210-365-00	2.7k	1-209-770-00	18k	1-210-113-00	120k	1-210-836-00	820k	1-211-698-00
9.1	—	62	1-210-352-00	430	1-210-366-00	3.0k	1-210-372-00	20k	1-210-377-00	130k	—	910k	—
10	—	68	1-210-353-00	470	1-209-764-00	3.3k	1-204-123-00	22k	1-210-114-00	150k	1-210-837-00	1 M	—
11	—	75	1-210-392-00	510	1-210-104-00	3.6k	1-210-373-00	24k	1-210-378-00	160k	—		
12	—	82	1-210-393-00	560	1-210-105-00	3.9k	1-209-771-00	27k	1-210-379-00	180k	1-210-838-00		

1/8 WATT CARBON RESISTOR

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
2.0	—	13	1-246-821-00	91	1-246-831-00	620	1-246-841-00	4.3k	1-246-851-00	30k	1-246-861-00	200k	1-246-871-00
2.2	1-246-751-00	15	1-246-761-00	100	1-246-771-00	680	1-246-781-00	4.7k	1-246-791-00	33k	1-246-801-00	220k	1-246-811-00
2.4	—	16	1-246-822-00	110	1-246-832-00	750	1-246-842-00	5.1k	1-246-852-00	36k	1-246-862-00	240k	1-247-054-00
2.7	1-246-752-00	18	1-246-762-00	120	1-246-772-00	820	1-246-782-00	5.6k	1-246-792-00	39k	1-246-802-00	270k	1-247-046-00
3.0	—	20	1-246-823-00	130	1-246-833-33	910	1-246-843-00	6.2k	1-246-853-00	43k	1-246-863-00	300k	1-247-055-00
3.3	1-246-753-00	22	1-246-763-00	150	1-246-773-00	1.0k	1-246-783-00	6.8k	1-246-793-00	47k	1-246-803-00	330k	1-247-047-00
3.6	—	24	1-246-824-00	160	1-246-834-00	1.1k	1-246-844-00	7.5k	1-246-854-00	51k	1-246-864-00	360k	1-247-056-00
3.9	1-246-754-00	27	1-246-764-00	180	1-246-774-00	1.2k	1-246-784-00	8.2k	1-246-794-00	56k	1-246-804-00	390k	1-247-048-00
4.3	—	30	1-246-825-00	200	1-246-835-00	1.3k	1-246-845-00	9.1k	1-246-855-00	62k	1-246-865-00	430k	1-247-057-00
4.7	1-246-755-00	33	1-246-765-00	220	1-246-775-00	1.5k	1-246-785-00	10k	1-246-795-00	68k	1-246-805-00	470k	1-247-049-00
5.1	—	36	1-246-826-00	240	1-246-836-00	1.6k	1-246-846-00	11k	1-246-856-00	75k	1-246-866-00	510k	1-247-058-00
5.6	1-246-756-00	39	1-246-766-00	270	1-246-776-00	1.8k	1-246-786-00	12k	1-246-796-00	82k	1-246-806-00	560k	1-247-050-00
6.2	—	43	1-246-827-00	300	1-246-837-00	2.0k	1-246-847-00	13k	1-246-857-00	91k	1-246-867-00	620k	1-247-059-00
6.8	1-246-757-00	47	1-246-767-00	330	1-246-777-00	2.2k	1-246-787-00	15k	1-246-797-00	100k	1-246-807-00	680k	1-247-051-00
7.5	1-246-818-00	51	1-246-828-00	360	1-246-838-00	2.4k	1-246-848-00	16k	1-246-858-00	110k	1-246-868-00	750k	1-247-060-00
8.2	1-246-758-00	56	1-246-768-00	390	1-246-778-00	2.7k	1-246-788-00	18k	1-246-798-00	120k	1-246-808-00	820k	1-247-052-00
9.1	1-246-819-00	62	1-246-829-00	430	1-246-839-00	3.0k	1-246-849-00	20k	1-246-859-00	130k	1-246-869-00	910k	1-247-061-00
10	1-246-759-00	68	1-246-769-00	470	1-246-779-00	3.3k	1-246-789-00	22k	1-246-799-00	150k	1-246-809-00	1 M	1-247-053-00
11	1-246-820-00	75	1-246-830-00	510	1-246-840-00	3.6k	1-246-850-00	24k	1-246-860-00	160k	1-246-870-00		
12	1-246-760-00	82	1-246-770-00	560	1-246-780-00	3.9k	1-246-790-00	27k	1-246-800-00	180k	1-246-810-00		

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